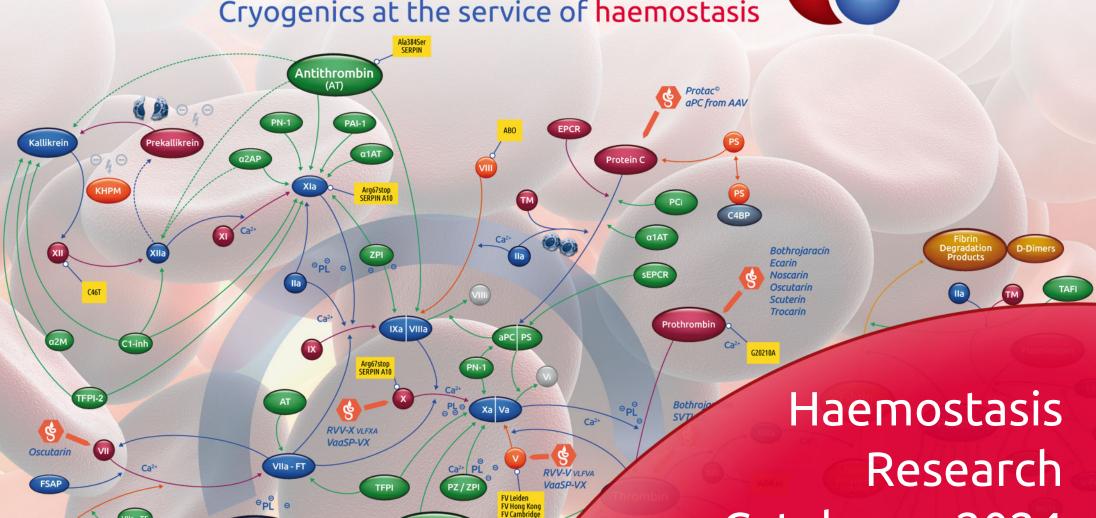
# **Cryopep** Cryogenics at the service of haemostasis



α2М

**Antithrombin** 

Ala384Ser SERPIN

Sub-endothelium

Activated **Platelets** 

Bitiscetin Kaouthiaain

vascular injury

Catalogue 2024



# The other way of thinking haemostasis.

We offer medical analysis laboratories **an innovative concept** through a range of **ready-to-use** frozen plasmas and reagents, of unprecedented quality comparable to that of plasmas from healthy donors.

This quality is obtained by selecting our raw materials with a high degree of requirement and then offering them in **frozen format without any** additives.

This solution eliminates the lyophilization steps and therefore the resulting deterioration, and at the same time improves the preanalysis **by** avoiding reconstitution errors.

We have taken care to also offer a range of plasmas and lyophilized reagents. They will provide a complementary offer in their presentation and quality to frozen products.

#### Saving

Practical packaging.
Conditioning of 0.5 to 4 mL.
Using more than 90 % of product (very little dead volume).

#### Quality assurance

Products are ready to use, eliminating the risk of error associated with reconstitution. CE and FDA, ISO 13485.

#### Time saving

Ready to use products after 5 minutes of thawing at 37°C: gain of 25 minutes over the reconstitution of a lyophilized reagent, which requires 30 minutes of stabilization.

#### **Quality Products**

Plasmas collected by plasmapheresis. No dry freeze, therefore no alteration of intrinsec qualities of plasmas. No additives.

#### Our technical support

We are committed to help you to ensure the quality of your results at your laboratory.

To help you better, we are able to bring you our support for the evaluation of our products by writing us at: support@cryopep.com



## The company

Specialized in the field of haemostasis, Cryopep offers a new alternative to traditionnal lyophilized reagents by providing clinical laboratories an innovative range of ready to use reagents.

The company is based in Montpellier (Fr) in the heart of a bustling business park and benefits from this dynamic environment to carry out all its activities.

Since its creation in 2008, the company has expanded operations and now serves the French territory and some European countries. The growth experience by the company is due mainly to the sale of frozen reagents for diagnostic and research use.

Our products are in compliance with current regulations (FDA ans CE marking, ISO 13485). The growth experience by the company is due mainly to the sale of frozen reagents for diagnostic and research uses.

## Why choose Cryopep over another?

#### Frozen reagents, simplicity and practicability.

We offer medical analysis laboratories an innovative concept through a range of ready-to-use frozen plasmas and reagents of unprecedented quality, comparable to that of fresh donor plasmas.

#### A full range of haemostasis reagents.

Ready-to-use frozen reagents that avoid reconstitution errors.

A range of plasmas and lyophilized reagents that provide additional offers reagents.

A range of research reagents of over 720 references.

#### Proven quality.

ISO 13485 and ISO 9001 standards from manufacturers.

Innovative high quality reagents that offer time saving and be practicable. Get technical support from hemostasis specialists.

#### A reliable logistics system.

Your products are carefully packed. We work exclusively with carriers receiving ISO 9001 standard and CERTIPHARM repository.

Guarantee of an effective monitoring and a fast delivery of your order.







Cryopep is the exclusive distributor in France of the Canadian company BioMedica Diagnostics. In December 2016, BioMedica Diagnostics acquired the specialized coagulation product line from Sekisui Diagnostics. The products remain unchanged, but the illustrations / brand are different.

BioMedica brings innovative, affordable and quality diagnostic solutions to a growing group of international partners, whose goal is to improve patient outcomes in the areas of hemostasis and thrombosis.

https://biomedicadiagnostics.com/



Cryopep is the distributor in France of the Swiss company Pentapharm.

Pentapharm is active in two main markets; Diagnostics and Pharma in several countries. Pentapharm specializes in the field of hemostasis to develop new applications or improve existing ones. The company is certified according to ISO 9001 and ISO 13485.

https://www.pentapharm.com/

#### **GEN** inCode

Cryopep is the exclusive distributor in France of the Spanish company GEN inCode.

Le but de GEN inCode is to promote diagnostic tests through prognosis and prediction based mainly on genomics, proteomics, metabolomics and bioinformatics technologies.

https://www.genincode.com/



Cryopep is the exclusive distributor in France of the American company Prolytix.

Prolytix formerly Haematologic Technologies specializes in the preparation of high quality proteins, enzymes, deficient plasmas, antibodies and special collection tubes for research use. Its internal quality system is certified according to ISO 9001 standards.

https://www.goprolytix.com/



Cryopep is the exclusive distributor in France of the German company LOXO.

LOXO develops, produces and distributes in vitro diagnostics (IVD) for medical diagnostic laboratories and laboratory reagents for industrial and scientific purposes.

https://www.loxo.de/

### Precision BioLogic

## Our partners

Cryopep is the exclusive distributor in France, the Netherlands, Belgium, Luxembourg and Spain of the Canadian company Precision BioLogic Inc.

This is specialized in the production of innovative products through a range of plasmas and frozen reagents. Its internal quality system, which follows the highest industry standards, is ISO 13485 registered (the industry standard for medical diagnostics) and manufactured under FDA quality system regulations. The products are registered according to the CE mark of the European Economic Community.

https://www.precisionbiologic.com/



Cryopep is the exclusive distributor in France of the Swedish company Rossix.

The Rossix company specializes in the development of colorimetric assays for hemostasis factors for use in the pharmaceutical industries and expert laboratories.

https://www.rossix.com/



Cryopep is a distributor in France of the company fzmb.

fzmb Gmb, Research Center for Medical Technology and Biotechnology located in Germany. Founded in 1994 by biotechnologists, engineers and physicians, the company today develops and manufactures innovative high-quality diagnostic products for laboratory and point-of-care applications.

https://www.fzmb.de/



Cryopep is the exclusive distributor in France of the Austrian company Technoclone.

It specializes in the production of diagnostic kits for hemostasis and has a very extensive ELISA range. Diagnostic products are registered according to the CE mark of the European Economic Community.

https://www.technoclone.com/



Cryopep is the exclusive distributor in France of the registered trademark ZACROS.

The CRYOPEP company markets in France of the T-TAS device from the Japanese company Fujimori Kogyo designed for use in clinical biology and / or research laboratories for the purpose of qualitatively analyzing the process of formation of a thrombus involving the adhesion of platelets using whole blood samples taken from a tube containing the anticoagulant BAPA in the flow condition. The company is certified according to ISO 13485 standards.

https://www.t-tas.info/

## Ready to use, simple and convenient

CRYOPEP plasmas and reagents can be adaptapted to most automatic analyzers. Once ready, they avoid any reconstitution and therefore any handling error, ansuring reliable results.

Making the lab work simple and convenient is especially important when facing frequent personnel changes. This provides lab professionals a real improvement to the preanalytical conditions and guarantees everyone's peace of mind.



## To order, several possibilities

By telephone +33(0)4 67 10 71 20
By fax +33(0)4 67 10 71 21
By e-mail contact@cryopep.com

By letter CRYOPEP, 83 rue Yves Montand, 34 080 Montpellier, FRANCE

## 2

## **Command Processing**

We carefully pack frozen products in boxes with dry ice or cold packs according to the nature of the product.

To optimize the conditions of transport of our products, we ship our packages in dry ice only from Monday to Wednesday, except urgent customer requests.

All other orders for freeze-dried products are shipped from Monday to Friday.

## 3

## **Transport**

We work exclusively with carriers receiving ISO 9001 and CERTIPHARM certifications.

We guarantee timely delivery of all products.

During transportation, we track all our shipments and, if necessary, call our customers to check that the packages have been received in the laboratory.





## **SUMMARY**

**MONOCLONAL ANTIBODIES** 

ANSN FLUOROGENIC SUBSTRATES

POLYCLONAL ANTIBODIES

SAMPLE COLLECTION TUBES

**COFACTORS** 

ZYMOGENS

**ASSAYS KITS** 

PLASMA DERIVED PROTEINS

→ THE COAGULATION CASCADE

**ENZYMES** 

→ TERMS AND CONDITIONS

**INHIBITORS** 

**DEFICIENT PLASMAS** 

**HUMAN PLASMAS** 

**VENOM PROTEASES** 

**BUFFERS AND SOLUTIONS** 

**CHROMOGENIC SUBSTRATES** 

AMC FLUOROGENIC SUBSTRATES

→ ALPHABETICAL INDEX

→ REFERENCE INDEX

#### **EXPLANATION FOR SYMBOLS USED**



These kits are manufactured in accordance with the 98/79 EC directive for in vitro diagnostic devices. Only CE marked products can be used for diagnostic applications in Europe.



These kits are intended for in vitro diagnostic use.



These kits are for research use only and are not intended to be used for diagnostic procedures.



Federal Drug Administration, FDA validates diagnostic kits for in vitro diagnostic use in the United States.



Biological risk products



Storage between 2 and 8 ° C



Reactive in liquid form



Reactive in lyophilized form



Reactive in frozen form



Stability after opening at 2-8 ° C



Products that can be refrozen



Stability 12 months after refreezing at -20 ° C



Manufacturer



Importer



Distributor

Anti-Factor V

Anti-prothrombin

Anti-Factor VII

Anti-Gamma Carboxylglutamyl (Gla) residues

Anti-Factor VIIa

Anti-scu-PA (Single chain urokinase plasminogen activator)

Anti-Factor VIII

Anti-TAFI

Anti-Factor IX

Anti-thrombin

Anti-Factor X

Anti-vitronectin

Anti-Factor XI

Anti-fibrin

Anti-fibronectin

Anti-plasminogen activator inhibitor type-1 (PAI-1)

Anti-TFPI

Anti-Protein C inhibitor

Anti-osteocalcin

Anti-urokinase type plasminogen activator (u-PA)

Anti-osteonectin

Anti-tissue type plasminogen activator (t-PA)

Anti-plasminogen

Anti-α-2-antiplasmin

Anti-protein C

Anti-tissue Factor

Anti-protein S

#### **POLYCLONAL ANTIBODIES**

Anti-Factor XIII

Anti-fibrinogen

Anti-heparin

Anti-plasminogen activator inhibitor type-1 (PAI-1)

Anti-plasminogen

Anti-protein C

Anti-antithrombin

Anti-protein S

Anti-Factor V

Anti-protein Z

Anti-Factor Va

Anti-prothrombin

Anti-tissue Factor

Anti-Factor VII

Anti-TAFI

Anti-Factor VIIa

Anti-TFPI

Anti-tissue type plasminogen activator (t-PA)

Anti-Factor VIII

Anti-thrombin

Anti-urokinase type plasminogen activator (u-PA)

Anti-Factor IX

Anti-vitronectin

Anti-Factor X

Anti-VWF

Anti-Factor XI

Anti-Factor XII

## COFACTORS

Von Willebrand Factor

Fibronectin

Protein S

Thrombomodulin

Factor V

Factor Va

## ASSAYS KITS

ELISA

#### PLASMA DERIVED PROTEINS

Lactadherin MFGE-8 protein (Milk fat globule-EGF Factor 8 protein)

Lys-plasminogen

Osteocalcin

Osteonectin

scu-PA (Single chain urokinase plasminogen activator)

urokinase-type plasminogen activator (u-PA)

Thrombospondin

Tissue-type Plasminogen Activator (t-PA)

Vitronectin

ß-2-glycoprotein I (B2GI)

ß-thromboglobulin

**CNBr** 

Platelet Factor -4

Tissue Factor

Fibrinogen

Fibronectin

Glu-plasminogen

Plasminogen activator inhibitor-type 1 (PAI-1)

#### **ENZYMES**

Factor Xa

Factor XIa

Factor XIIa

Factor XIIIa

Plasmin

Activated protein C (APC)

Thrombin (FIIa)

Factor VIIa

Kallikrein

Factor IXa

#### **INHIBITORS**

Natural protease inhibitors Synthetic irreversible inhibitors Synthetic reversible inhibitors

### DEFICIENT PLASMAS

Immunodepleted deficient plasmas

Congenital deficient plasmas (Bottles)

Acquired deficient plasmas (Bottles)

Congenital deficient plasmas (Kits)

#### **HUMAN PLASMAS**

Weak control plasma

Fibrinogen plasmas

Individual normal donors plasmas

Normal donor serum

Pool of plasma from healthy donors

High Factor plasmas

Plasmas with anticoagulant drugs

#### **VENOM PROTEASES**

Agkistrodon contortrix venom snake

Daboia Russelii venom

Echis carinatus venom snake

Vipera Russelii venom

Bothrops atrox venom snake

Crotalus durissus terrificus venom snake

#### **BUFFERS AND SOLUTIONS**

Collagen

**Buffers** 

Phospholipids

#### CHROMOGENIC SUBSTRATES

Chromogenic substrate for activated Factor XII (FXIIa)

Chromogenic substrates for C1-esterase

Chromogenic substrates for glandular kallikrein

Chromogenic substrates for plasma kallikrein

Chromogenic substrates for plasmin and plasminogen-SK

Chromogenic substrates for activated protein C (APC)

Chromogenic substrates for thrombin (FIIa)

Chromogenic substrate for tryptase

Chromogenic substrates for urokinase plasminogen activator (u-PA)

Chromogenic substrates for tissue plasminogen activator (t-PA)

Chromogenic substrate for plasmin-streptokinase complex

Chromogenic substrates for activated Factor IX (FIXa)

Chromogenic substrates for activated Factor VII (VIIa)

Chromogenic substrates for activated Factor X (FXa)

Chromogenic substrate for trypsin

Chromogenic substrates for activated Factor XI (FXIa)

Chromogenic substrate of Limulus Amebocyte Lysate (LAL)

#### AMC FLUOROGENIC SUBSTRATES

Fluorogenic AMC substrates for thrombin

#### ANSN FLUOROGENIC SUBSTRATES

Fluorogenic ANSN substrate for Plasmin

Fluorogenic ANSN substrate for Factor VIIa / VIIa-TF

Fluorogenic ANSN substrate for Factor Xa

Fluorogenic ANSN substrate for PCa

Fluorogenic ANSN Substrate for t-PA

Fluorogenic ANSN substrates for thrombin (FIIa)

Fluorogenic ANSN substrate for Factor XIa

#### SAMPLE COLLECTION TUBES

Sample collection tubes

#### **ZYMOGENS**

Plasminogen

Factor VII

Factor IX

Factor X

Factor XI

Factor XII

Factor XIII

Glu-plasminogen

Lys-plasminogen

Prethrombin

Protein C

Prekallikrein

Prothrombin

Reference	Designation Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WEB
Anti-Factor V						
9-ABV-5105	→ Mouse monoclonal antibody anti-bovine FV, IgG1,	Bovine FV/FVa	IB, RIA	Mouse		
	ABV-5105					
9-ABV-5103	→ Mouse monoclonal antibody anti-bovine FV, IgG1,	Bovine FV	IB, ELISA	Mouse		₩
	ABV-5103					
9-ABV-5104	→ Mouse monoclonal antibody anti-bovine FV, IgG1,	Bovine FV/FVa	IB, RIA, ELISA, Inhib.	Mouse		———
	ABV-5104					
9-ABV-5106	→ Mouse monoclonal antibody anti-bovine FV, IgG1,	Bovine FV/FVa	IB, ELISA	Mouse		
	ABV-5106					
9-ABV-5107	→ Mouse monoclonal antibody anti-bovine FV, IgG1,	Bovine FV/FVa	IB, ELISA	Mouse		
	ABV-5107					
9-AHV-5102	→ Mouse monoclonal antibody anti-human FV, IgG,	Human FV	RIA, IB	Mouse		———
	AHV-5102					
9-AHV-5108	→ Mouse monoclonal antibody anti-human FV, IgG,	Human FV and Va	RIA, IB	Mouse		
	AHV-5108					
9-AHV-5146	→ Mouse monoclonal antibody anti-human FV, IgG,	Human FV et FVa	IB, ELISA	Mouse	150 000	
	AHV-5146					
9-AHV-5101	→ Mouse monoclonal antibody anti-human FV, IgG1,	Human FV/FVa, and	RIA, Inhib.	Mouse		
	AHV-5101	Bovine FV				
9-AHV-5110	→ Mouse monoclonal antibody anti-human FV, IgG1,	Human FV	RIA, IB	Mouse		•
	AHV-5110					
9-AHV-5112	→ Mouse monoclonal antibody anti-human FV, IgG1,	Human FVa	RIA, IB	Mouse		
	AHV-5112					



Reference	Designation Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WEB
Anti-thrombin						
9-AHT-5020	ightarrow Mouse monoclonal antibody anti-human thrombin, IgG1	Human thrombin	ELISA	Mouse		₩
Anti-Factor X						
9-ABX-5051	→ Mouse monoclonal antibody anti-bovine Factor X, IgG1	Heavy chain of FX and FXa	IB, RIA, ELISA, purif.	Mouse		
9-AHX-5050	ightarrow Mouse monoclonal antibody anti-human Factor X, IgG1	Human FX/FXa	Purif., Inhib.	Mouse		•
9-AMX-9051	ightarrow Rat monoclonal antibody anti-mouse Factor X, heavy chain	Mouse FX	IB, ELISA	Rat		•
9-AMX-9050	ightarrow Rat monoclonal antibody anti-mouse Factor X, heavy chain FX/FXa	Mouse FX/FXa, Human FX/FXa	IB, ELISA	Rat		•
Anti-vitronectin						
4-TC21511	→ Mouse monoclonal antibody anti-vitronectin, 2VN, IgG	Human vitronectin	IB, ELISA	Mouse		•
Anti-Factor XI						
9-AHXI-5061	→ Mouse monoclonal antibody anti-human Factor XI, IgG	Human Factor XI	IB, RIA, Purif, Inhib.	Mouse		₩
Anti-fibrin						
11-350	→ Murine monoclonal antibody anti-human fibrin ß-chain (IgG1)	Beta chain of fibrinogen / human fibrin	IHC	Mouse		•
Anti-fibronectin						
4-TC21223	ightarrow Mouse monoclonal antibody anti-fibronectin, 2FN, IgG	Human fibronectin	IB, ELISA	Mouse		•
4-TC21243	→ Mouse monoclonal antibody anti-fibronectin, 6FN, IgG2a	Human fibronectin	IB, ELISA	Mouse		•
Anti-plasminogen	activator inhibitor type-1 (PAI-1)					
4-TC21163	→ Mouse monoclonal antibody anti-human PAI-1, 1PAI, IgG2b	PAI-1	ELISA, immunod.	Mouse		
4-TC21173	→ Mouse monoclonal antibody anti-human PAI-1, 3PAI, (IgG2b)	PAI-1	ELISA, IHC, immunod.	Mouse		



Reference	Designation	Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WE
4-TC21193	→ Mouse monocl	onal antibody anti-human PAI-1, 5PAI,	PAI-1	ELISA, IHC, immunod.	Mouse		<b></b>
	(lgG1)						
Anti-TFPI							
9-AHTFPI-5138	→ Anti-human Tis	sue Factor Pathway Inhibitor, IgG	Human TAFI	IB, ELISA	Mouse	150 000	<b>(</b>
Anti-Protein C inhib	oitor						
4-TC21353	→ Mouse monocl	onal antibody anti-protein C inhibitor, 4PC	CI,PCI and PCI target	ELISA	Mouse		•
	(IgG1)						
Anti-osteocalcin							
9-ABOC-5021	→ Mouse monocl	onal antibody anti-bovine osteocalcin, IgC	G1Human and bovine	IB, RIA, ELISA, IHC,	Mouse		
			bone osteocalcin	purif.			
Anti-prothrombin							
9-AHP-5013	→ Mouse monocl	onal antibody anti-human prothrombin,	Human Prothrombin	IB, ELISA, Inhib.	Mouse	150 000	
	lgG2a						
9-AMP-9013	→ Rat monoclona	l antibody anti-mouse prothrombin	Mouse prothrombin	IB, ELISA	Rat		•
Anti-urokinase type	plasminogen activat	or (u-PA)					
26-ADG3689	<u> </u>	onal antibody against human uPA	Urokinase	IB, ELISA, IHC, Inhib.	Mouse		•
4-TC21063	→ Mouse monocl	onal antibody anti-human u-PA, 4UK, IgG	G1 Urokinase	ELISA	Mouse		
Anti-osteonectin		, , ,					W.
9-AON-5031	→ Mouse monocl	onal antibody anti-human osteonectin	Mouse Osteonectin	RIA, IB, ELISA, IHC,	Mouse		
	(lgG1)	•		purif.			~ N
Anti-tissue type pla	sminogen activator (t	-PA)					
4-TC21053		onal antibody anti-t-PA (epitope kringle 2	t-PA	ELISA, inhib.	Mouse		
	domain) 7VPA, (Ig	gG1)					
4-TC21023	→ Mouse monocl	onal antibody anti-t-PA, (lgG1)	t-PA	ELISA, inhib.	Mouse		•
4-TC21013	→ Mouse monocl	onal antibody anti-t-PA (epitope on the	t-PA	ELISA	Mouse		
	light chain) 2VPa,						~n



Reference	Designation Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WEB
Anti-plasminogen						
9-AMPG-9130	→ Rat monoclonal antibody anti-mouse plasmi	· ·	IB, ELISA	Rat		•
		plasminogen/plasmin				
4-TC21103	ightarrow Mouse monoclonal antibody anti-human pla	sminogen, Glu-Plasminogen	ELISA, separation,	Mouse		
	1PG, IgG1		biochemical studies			
4-TC21113	→ Mouse monoclonal antibody anti-human pla	sminogen, Glu-Plasminogen	ELISA, biochemical	Mouse		•
	2PG, lgG1		studies			
4-TC21123	→ Mouse monoclonal antibody anti-human pla	sminogen, Plasminogen and free	e ELISA, biochemical	Mouse		
	4PG, IgG1	plasmin only	studies			
4-TC21133	→ Mouse monoclonal antibody anti-human pla	sminogen, Free plasminogen or	Biochemical studies	Mouse		
	7PG, IgG1	plasmin				
Anti-α-2-antiplasmir	1					
4-TC21083	→ Mouse monoclonal antibody anti-α-2-Antipla	ısmin, 2AP, Native α-2-antiplasmi	in ELISA	Mouse		₩
	lgG1					
4-TC21093	ightarrow Mouse monoclonal antibody anti- $lpha$ -2-Antipla	smin, 3AP, Native α-2-antiplasmi	in Separation of forms	Mouse		•
	lgG1					
4-TC21265	→ Mouse monoclonal antibody anti-α-2-Antipla	asmin,14AP, α-2-antiplasmin	ELISA, Inhib.	Mouse		•
	lgG2a					
4-TC21263	→ Mouse monoclonal antibody anti-α-2-Antipla	ısmin,7AP, α-2-antiplasmin	IB, ELISA, Inhib.	Mouse		
	IgG1					
Anti-protein C						
9-AMPC-9071	→ Rat monoclonal antibody anti-mouse Proteir	n C Mouse PC	IB, ELISA	Rat		•
9-AMPC-9072	ightarrow Rat monoclonal antibody anti-mouse PC	Mouse PC	WB, ELISA	Rat		•
9-AHPC-5071	→ Mouse monoclonal antibody anti-human pro	tein C, IgG1 Human antigen PC	IB, ELISA, RIA, purif.	Mouse		
		and aPC				



Reference	Designation Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WEB
9-AHPC-5072	→ Mouse monoclonal antibody anti-human protein	C, IgG2b Mouse PC and aPC	IB, RIA, ELISA, purif.	Mouse		•
Anti-tissue Factor						
26-ADG4508	→ Monoclonal Antibody against Human Tissue Fac	tor Tissue Factor	IB, IHC, FC	Human		•
9-AHTF-5264	ightarrow Anti-Tissue Factor (IgG) murine monoclonal anti	body Tissue factor	IB, ELISA	Mouse		•
11-4507CJ	→ Murine monoclonal antibody anti-human tissue F FITC conjugated	actor, Tissue factor	Inhib. Thromboplastin	Mouse		•
11-4509	→ Murine monoclonal antibody anti-human tissue F IIID8	actor, Tissue factor	IHC, IB, inhib.	Mouse		•
11-4503	→ Murine monoclonal antibody anti-human tissue FIgG	actor, Tissue factor	FC, IHC, IP, IB	Mouse		₩
Anti-protein S						
9-AHPS-5092	ightarrow Mouse monoclonal antibody anti-human protein	S, IgG1 Human protein S	IB, RIA, ELISA, purif.	Mouse		•
9-AHPS-5091	ightarrow Mouse monoclonal antibody anti-human protein	S, IgG2b Human protein S	IB, RIA, ELISA, purif.	Mouse	,	•
Anti-Factor VII						
9-AHVII-5031	→ Mouse monoclonal antibody anti-human FVII, Igo	G1 Human FVII, FVIIa, BFPRck FVIIa	IB, ELISA, RIA	Mouse		₩
9-AMVII-9031	→ Rat monoclonal antibody anti-mouse FVII	Recombinant mouse FVII and FVIIa	IB, ELISA	Mouse		₩
Anti-Gamma Carbo	xylglutamyl (Gla) residues					
11-3570	→ Murine monoclonal antibody anti-gamma-carbox	yglutamylGla residues of human	IB, IP	Mouse		•
	(Gla) residues	proteins				
Anti-Factor VIIa						
11-2282	→ Murine monoclonal antibody against human FVII	a lgG FVIIa	IB, Inhib. FVIIa	Mouse		•



Reference	Designation	Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WEB
Anti-scu-PA (Single	chain urokinase	plasminogen activator)					
4-TC21393	→ Mouse mon	oclonal antibody anti-scu-PA, 1scu-PA, IgG1	Single and double chain urokinase	IB, ELISA	Mouse		₩
4-TC21293	→ Mouse mon	oclonal antibody anti-scu-PA, 14scu-PA, IgG	1 Urokinase	IB, ELISA, Inhib.	Mouse		
4-TC21283	→ Mouse mon	oclonal antibody anti-scu-PA, 35scu-PA, IgG	1 Pro-urokinase	ELISA, IHC	Mouse		
4-TC21383	→ Mouse mon	oclonal antibody anti-scu-PA, PUK	Single chain of urokinase	ELISA	Mouse		₩
Anti-Factor VIII							
26-ADGESH-5	→ Murine mon chain, clone E	oclonal antibody against human FVIII, heavy SH-5		IB, Immunopurif. et Immunodep., IF	Mouse		₩
26-ADGESH-4	→ Murine mon	oclonal antibody against human FVIII, light SH-4	_	Immunopurif. et Immunodep., IF	Mouse		
26-ADGESH-8	→ Murine mon	oclonal antibody against human FVIII, light SH-8	_	IB, IHC, Inhib.	Human		•
9-AHVIII-5025	→ Mouse mon	oclonal antibody anti-human FVIII, IgG1	Human FVIII light chain	IB, ELISA	Mouse		•
9-AMVIII-9035	→ Rat monocl	onal antibody anti-mouse FVIII	Recombinant mouse FVIII	IB, ELISA	Rat		•
Anti-TAFI							
9-AHTAFI-5024	→ Mouse mon lgG1	oclonal antibody anti-human TAFI activated,	Human TAFI and activated TAFI	IB, ELISA	Mouse		₩
9-AHTAFI-5026	→ Mouse mon	oclonal antibody anti-human TAFI purifed,	Human TAFI	IB (only TAFI), ELISA	Mouse		
9-AHTAFI-5081	→ Mouse mon	oclonal antibody anti-human TAFI, IgG2b	Human TAFI	IB, ELISA	Mouse		•



Reference	Designation	Click to go to the product sheet	Antigen	Application	Source	PM (g/mol)	WEB
Anti-Factor IX							
9-AHIX-5041	→ Mouse more	noclonal antibody anti-human Factor IX, IgG1	Human FIX/FIXa and	RIA, IB, ELISA, IHC	Mouse		•
			heavy chain of human				
			FIX/FIXa				
9-AMIXA-9041	→ Rat monocl	onal antibody anti-mouse activated Factor IX	FIX and FIXa de	IB, ELISA	Rat		<b></b>
	(FIXa)		Mouse				



**Anti-Factor V** 

## Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105









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Associated	products
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Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5106

Reference	Presentation	Format
9-ABV-5105	Vial	100 µg

Antigen: bovine FVa light chain, bovine FV in the absence of Ca2+

Application: RIA, Immunoblotting

Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Mouse monoclonal antibody anti-bovine FV, IgG1,

Anti-Factor V

Associated products

## Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Format

100 µg









<b>★ KOO</b> -25°C <b>1</b>		
Reference	Presentation	

Vial

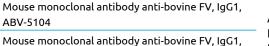
Antigen: bovine FV, epitope on the activation peptide of bovine FV

Application: Immunoblotting, ELISA

9-ABV-5103

Host: Mouse

Immunogen: Purified bovine factor V





ABV-5105

ABV-5104

ABV-5106

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







**Anti-Factor V** 

## Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104











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Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5106

Reference	Presentation	Format
9-ABV-5104	Vial	100 µg

Antigen: heavy chain of bovine FVa and low specificity with intact bovine FV

Application: RIA, Immunoblotting, ELISA, inhibitory

Host: Mouse

Immunogen: Purified bovine factor V



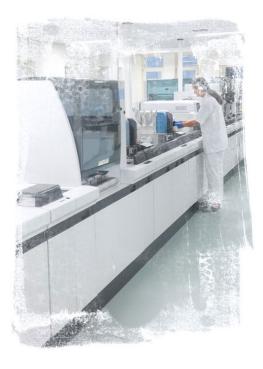
#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-Factor V** 

## Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5106









Associated	products
Associated	products

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Reference	Presentation	Format	
9-ABV-5106	Vial	100 µg	

Antigen: heavy chain of bovine FVa and low specificity with intact bovine FV

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-Factor V

## Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5107











Associa	ted	ргос	lucts
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Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Reference	Presentation	Format
9-ABV-5107	Vial	100 µg

Antigen: bovine FVa light chain, bovine FV

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities.

#### Characteristics





Anti-Factor V

Associated products

## Mouse monoclonal antibody anti-human FV, IgG, **AHV-5102**









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Associated produc			
Mouse monoclonal antib	adu anti havir	no EV JaC1	

ABV-5105 Mouse monoclonal antibody anti-bovine FV, IgG1,

Mouse monoclonal antibody anti-bovine FV, IgG1,

ABV-5104

ABV-5103

Reference	Presentation	Format
9-AHV-5102	Vial	100 µg

Antigen: 120 KDa activation peptide of human FV.

Application: RIA, Immunoblotting,

Kd = 4X10-9Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-Factor V

## Mouse monoclonal antibody anti-human FV, IgG, **AHV-5108**









Asso	ciated	brod	lucts
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Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Reference	Presentation	Format	
9-AHV-5108	Vial	100 µg	

Antigen: human FV and Va, light chain (fragment E, 74 kDa) of FVa

Application: RIA, Immunoblotting

Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics



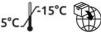


Anti-Factor V

## Mouse monoclonal antibody anti-human FV, IgG, **AHV-5146**









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Assoc	iated	l prod	lucts
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Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.

#### Reference Presentation **Format** Vial 9-AHV-5146 100 µg

Origin: Mouse monoclonal IgG

Antigen: Epitope within the factor Va heavy chain

Application: Immunoblotting, ELISA

MW (Da): 150 000

Extinction coefficient: 14.0

Host: Mouse

Immunogen: Purified bovine factor V

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request.

Discount according to quantities

#### Characteristics







Anti-Factor V

Associated products

## Mouse monoclonal antibody anti-human FV, IgG1, AHV-5101











Mouse monoclonal antibody anti-bovine FV	, IgG

ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Reference	Presentation	Format
9-AHV-5101	Vial	100 µg

Antigen: light chain of human FV, human FV, human FVa, bovine FV

Application: RIA, Inhibitor on coagulation tests,

Kd = 3X10-9Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-Factor V

## Mouse monoclonal antibody anti-human FV, IgG1, AHV-5110









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Associa	ted pr	oducts
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Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Reference	Presentation	Format	
9-AHV-5110	Vial	100 ua	

Antigen: 120 kDa activation peptide of human FV

Application: RIA, Immunoblotting, useful for purification of activation peptide

Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request.

Discount according to quantities

#### Characteristics





Anti-Factor V

## Mouse monoclonal antibody anti-human FV, IgG1, AHV-5112











Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5105

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5103

Mouse monoclonal antibody anti-bovine FV, IgG1, ABV-5104

Reference	Presentation	Format
9-AHV-5112	Vial	100 µg

Antigen: human FVa light chain (fragment E, 74 kDa)

Application: RIA, Immunoblotting,

Host: Mouse

Immunogen: Purified bovine factor V



#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request.

Discount according to quantities

#### Characteristics





Anti-prothrombin

## Mouse monoclonal antibody anti-human prothrombin, IgG2a





Rat monoclonal antibody anti-mouse prothrombin

#### Informations

Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibrinogen into fibrin, amplify its own formation and activate the protein C, TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during anti-vitamin K treatments or vitamin K deficiency, CIVD, anti-FII autoantibodies.



Reference	Presentation	Format
9-AHP-5013	Vial	100 µg

Antigen recognized: Human prothrombin, prethrombin-1, fragment 1.2, meizothrombin and human prothrombin

Application: Immunoblotting, ELISA, inhibits clotting and prothrombin activation.

Host: Mouse

Immunogen: Human prothrombin purified

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates.
Special formulations are available upon request.
Discount according to quantities

#### Characteristics







Anti-prothrombin

Associated products

Mouse monoclonal antibody anti-human

## Rat monoclonal antibody anti-mouse prothrombin











Reference	Presentation	Format
9-AMP-9013	Vial	100 μg

Antigen: mouse prothrombin

Application: Immunoblotting, ELISA

Host: Rat

Immunogen: Purified mouse prothrombin



#### Informations

prothrombin, IgG2a

Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibrinogen into fibrin, amplify its own formation and activate the protein C. TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during anti-vitamin K treatments or vitamin K deficiency, CIVD, anti-FII autoantibodies.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-Factor VII** 

Associated products

Rat monoclonal antibody anti-mouse FVII

## Mouse monoclonal antibody anti-human FVII, IgG1









Reference	Presentation	Format
9-AHVII-5031	Vial	100 µg

Origin: Mouse monoclonal antibody IgG1 Antigen: Human Factor VII, VIIa, BFPRck VIIa

Application: RIA, Immunoblotting, ELISA

Host: Mouse

Immunogen: Purified human FVII



Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form.

When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation.

This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities.

#### Characteristics







Anti-Factor VII

## Rat monoclonal antibody anti-mouse FVII



#### Associated products

Mouse monoclonal antibody anti-human FVII, IgG1

#### Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.



Reference	Presentation	Format
9-AMVII-9031	Vial	100 µg

Antigen: Recombinant mouse FVII and FVIIa (unreduced form only). Native mouse FVII (unreduced form only)

Application: Immunoblotting (unreduced condition only)

ELISA: mouse rFVII / rFVIIa

Host: Mouse

Immunogen: FVII recombinant mouse

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities

#### Characteristics







Informations

#### **MONOCLONAL ANTIBODIES**

Anti-Gamma Carboxylglutamyl (Gla) residues

Gamma-Carboxyglutamic Acid is an amino acid derived from glutamate in a reaction that involves

vitamin K. There are many Gla residues of coagulation proteins. Gla residues are ligands for

Ca2 + ions, a critical reaction for the activity of

coagulation factors and proteins.

## Murine monoclonal antibody anti-gamma-carboxyglutamyl (Gla) residues







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Reference	Presentation	Format	
11-3570	Vial	0.5 mg	

Antigen: Gla residues of human proteins and other species and also in venoms.

Application: Immunoblotting, IP

Host: Mouse

Immunogen: 8 synthetic Gla groups



#### Advantages

The lyophilized presentation allows greater stability until the expiration date.

#### Characteristics

Lyophilized 0.5mg antibody from a 0.5mL solution containing 10mM PBS buffer, 140mM NaCl and 100mM mannitol pH 7.4.





**Anti-Factor VIIa** 

## Murine monoclonal antibody against human FVIIa IgG

Format

200 µg





11-2282



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Reference	Presentation

Application: Inhibitor of the activity of FVIIa, Immunoblotting (in non-reduced condition)

Vial

Host: Mouse

Immunogen: Human purified FVIIa

Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

#### Advantages

The lyophilized presentation allows greater stability until the expiration date.

#### Characteristics

Antibody lyophilized in 400 µl of PBS and 100 mM mannitol, pH 7.4. To be reconstituted with 0.4mL of distilled water. After reconstitution stored at -20 ° C and avoid freeze / thaw cycles.

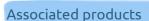




Anti-scu-PA (Single chain urokinase plasminogen activator)

# Mouse monoclonal antibody anti-scu-PA, 1scu-PA, 1gG1





Mouse monoclonal antibody anti-scu-PA, 14scu-PA, IaG1

Mouse monoclonal antibody anti-scu-PA, 35scu-PA, IgG1



Belonging to the family of serine proteases. UPA activates plasminogen to convert it into plasmin, an enzyme that breaks down fibrin.

It intervenes in the phases of dissolution of the clot during fibrinolysis.

It has also been shown to increase the amount of u-PA in some tumors.



Reference	Presentation	Format
4-TC21393	Vial	500 µд

#### Antigen: single and double chain urokinase

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: human single chain recombinant urokinase

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7,4.

After reconstitution the antibodies should be aliquoted and stored at -20 °C.

Avoid repeated cycles of freezing and thawing.







Anti-scu-PA (Single chain urokinase plasminogen activator)

# Mouse monoclonal antibody anti-scu-PA, 14scu-PA, IgG1





Mouse monoclonal antibody anti-scu-PA, 1scu-PA, IaG1

Mouse monoclonal antibody anti-scu-PA, 35scu-PA, IgG1



Belonging to the family of serine proteases. UPA activates plasminogen to convert it into plasmin, an enzyme that breaks down fibrin.

It intervenes in the phases of dissolution of the clot during fibrinolysis.

It has also been shown to increase the amount of u-PA in some tumors.



Reference	Presentation	Format
4-TC21293	Vial	500 µg

Antigen: binds to single chain urokinase, two-chain urokinase, and low molecular weight urokinase.

Application: Immunoblotting, ELISA, inhibit functional activity

Host: Mouse

Immunogen: Recombinant single chain human urokinase



Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 with 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution should be aliquoted and stored at -20 °C. Avoid repeated cycles of freezing and thawing.







Anti-scu-PA (Single chain urokinase plasminogen activator)

## Mouse monoclonal antibody anti-scu-PA, 35scu-PA, IgG1



### Associated products

Mouse monoclonal antibody anti-scu-PA, 1scu-PA, IaG1

Mouse monoclonal antibody anti-scu-PA, 14scu-PA, IgG1

#### Informations

Belonging to the family of serine proteases. UPA activates plasminogen to convert it into plasmin, an enzyme that breaks down fibrin.

It intervenes in the phases of dissolution of the clot during fibrinolysis.

It has also been shown to increase the amount of u-PA in some tumors.



Reference	Presentation	Format
4-TC21283	Vial	500 µg

Antigen: binds to single chain pro-urokinase, two-chain urokinase, and low molecular weight urokinase.

Application : ELISA, IHC

Host: Mouse

Immunogen: Recombinant single chain human pro-urokinase

#### Characteristics

Antibody lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4. After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated cycles of freezing and thawing.







Anti-scu-PA (Single chain urokinase plasminogen activator)

### Mouse monoclonal antibody anti-scu-PA, PUK







Reference	Presentation	Format
4-TC21383	Vial	500 µg

Application: ELISA Host: Mouse

Immunogen: single chain of recombinant human urokinase

## Antigen: single chain of urokinase

It has also been shown to increase the amount of u-PA in some tumors.

It intervenes in the phases of dissolution of the clot

Belonging to the family of serine proteases. UPA activates plasminogen to convert it into plasmin, an

Informations

during fibrinolysis.

enzyme that breaks down fibrin.

#### Characteristics

Antibodies lyophilized from a solution of 0.5 mg/mL in 10 mM bicarbonat buffer, pH 9.6 After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated freezing and thawing cycles.







**Anti-Factor VIII** 

## Murine monoclonal antibody against human FVIII, heavy chain, clone ESH-5









Asso	ciated	products

Murine monoclonal antibody against human FVIII, light chain, clone ESH-4

Murine monoclonal antibody against human FVIII, light chain, clone ESH-8



Mouse monoclonal antibody anti-human FVIII. IgG1



Rat monoclonal antibody anti-mouse FVIII

Reference	Presentation	Format
26-ADGESH-5	Vial	1 x 0,5 mg

The antibody is purified from cell cultures via Protein G affinity chromatography. Purified human Factor VIII:C cryoprecipitate was used as an immunizing antigen.

Applications: Immunoblotting, inhibition, immunohistochemistry, immunopurification and immunodepletion.

Source: Human.

Immunogen: human urokinase.

#### Advantages

Factor VIII is a glycoprotein synthesized primarily by the liver. It circulates in plasma in a VWF-bound form that protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will be complexed with FIXa in the presence of phospholipids to activate FX in FXa.

The mature form of FVIII is a single-chain protein with a molecular ratio of about 265 kDa.

#### Characteristics

Screw cap vial containing 500 µg of purified antibodies in PBS, ProClin 0.01%, pH7.4, sterile. Purity > 90%.

Concentration: 1 mg/mL

For long-term storage, the antibody must be aliquot and kept at a temperature below -20°C. Avoid freezing-thaw cycles.





**Anti-Factor VIII** 

## Murine monoclonal antibody against human FVIII, light chain, clone ESH-4









#### Associated products

Murine monoclonal antibody against human FVIII, heavy chain, clone ESH-5

Murine monoclonal antibody against human FVIII, light chain, clone ESH-8

Mouse monoclonal antibody anti-human FVIII, IgG1

Reference	Presentation	Format
26-ADGESH-4	Vial	1 x 0,5 mg

Murine MAb against human Factor VIII Ag, clone ESH-4, light chain. aa 2303-2332 of C2 domain of the light chain.

Application: Immunopurification and Immunodepletion, IF Immunogen: FVIII: C purified and cryoprecipitated.

#### Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.

#### Advantages

The lyophilized presentation allows greater stability until the expiration date.

#### Characteristics

Lyophilized antibody to be reconstituted with 0.5mL of distilled water. Antibody also reacts with baboon and rabbit FVIII.





**Anti-Factor VIII** 

## Murine monoclonal antibody against human FVIII, light chain, clone ESH-8





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Murine monoclonal antibody against human FVIII, heavy chain, clone ESH-5

Murine monoclonal antibody against human FVIII, light chain, clone ESH-4

Mouse monoclonal antibody anti-human FVIII, IgG1

#### Informations

Factor VIII is a glycoprotein synthesized primarily by the liver. It circulates in plasma in a VWF-bound form that protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will be complexed with FIXa in the presence of phospholipids to activate FX in FXa.

The mature form of FVIII is a single-chain protein with a molecular ratio of about 265 kDa.

Reference	Presentation	Format
26-ADGESH-8	Vial	1 x 0,5 mg

The antibody is purified from cell cultures via Protein G affinity chromatography. Purified human Factor VIII:C cryoprecipitate was used as an immunizing antigen.

Applications: Immunoblotting, inhibition, immunohistochemistry, immunopurification and immunodepletion.

Source: Human.

Immunogen: human urokinase.

#### Characteristics

Screw cap vial containing 500 µg of purified antibodies in PBS, ProClin 0.01%, pH7.4, sterile. Purity > 90%. Concentration: 1 mg/mL

For long-term storage, the antibody must be aliquot and kept at a temperature below -20°C. Avoid freezing-thaw cycles.

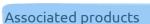




**Anti-Factor VIII** 

## Mouse monoclonal antibody anti-human FVIII, IgG1





Rat monoclonal antibody anti-mouse FVIII

#### Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.



Reference	Presentation	Format
9-AHVIII-5025	Vial	100 µg

#### Antigen: Human FVIII light chain

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: Human purified FVIII

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities

#### Characteristics







**Anti-Factor VIII** 

## Rat monoclonal antibody anti-mouse FVIII



#### Associated products

Mouse monoclonal antibody anti-human FVIII, IgG1

#### Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation. It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.



Reference	Presentation	Format
9-AMVIII-9035	Vial	100 µg

#### Antigen: Recombinant mouse FVIII

Application: Immunoblotting, ELISA

Host: Rat

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







**Anti-TAFI** 

## Mouse monoclonal antibody anti-human TAFI activated, IgG1









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Mouse monoclonal an	ntibody anti-human TAFI

Associated products

purifed, IgG1 Mouse monoclonal antibody anti-human TAFI,

#### Informations

IaG2b

TAFI is an enzyme that stabilizes the clot by protecting the fibrin from the clot from lysis. TAFI is activated by thrombin and its activation is amplified in the presence of thrombomodulin. Activated TAFI removes the C-terminal lysine and arginine residues of fibrin which are necessary for the binding of t-PA, plasmin and plasminogen to fibrin.

#### Reference Presentation **Format** 9-AHTAFI-5024 Vial 100 µg

#### Antigen: Human TAFI and activated TAFI

Application: Immunoblotting, ELISA, inhibits activation and activated TAFI

Host: Mouse

Immunogen: Human TAFI purified

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







**Anti-TAFI** 

## Mouse monoclonal antibody anti-human TAFI purifed, IgG1









RUO -25°C / -15°C
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Reference	Presentation	Format
9-AHTAFI-5026	Vial	100 µg

**Antigen: Human TAFI** 

Application: Immunoblotting (TAFI only), ELISA, inhibits TAFI activation

Host: Mouse

Immunogen: purified human TAFI



#### Informations

activated, IgG1

IaG2b

Associated products

TAFI is an enzyme that stabilizes the clot by protecting the fibrin from the clot from lysis. TAFI is activated by thrombin and its activation is amplified in the presence of thrombomodulin. Activated TAFI removes the C-terminal lysine and arginine residues of fibrin which are necessary for the binding of t-PA, plasmin and plasminogen to fibrin.

Mouse monoclonal antibody anti-human TAFI

Mouse monoclonal antibody anti-human TAFI,

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-TAFI** 

### Mouse monoclonal antibody anti-human TAFI, IgG2b











Reference	Presentation	Format
9-AHTAFI-5081	Vial	100 μg

**Antigen: Human TAFI** 

Application: Immunoblotting (TAFI only), ELISA, non-inhibitory

Host: Mouse

Immunogen: purified human TAFI



#### Informations

activated, IgG1

purifed, IgG1

Associated products

Mouse monoclonal antibody anti-human TAFI

Mouse monoclonal antibody anti-human TAFI

TAFI is an enzyme that stabilizes the clot by protecting the fibrin from the clot from lysis. TAFI is activated by thrombin and its activation is amplified in the presence of thrombomodulin. Activated TAFI removes the C-terminal lysine and arginine residues of fibrin which are necessary for the binding of t-PA, plasmin and plasminogen to fibrin.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-Factor IX** 

### Mouse monoclonal antibody anti-human Factor IX, IgG1

**Format** 

100 µg









Reference	Presentation

Origin: Mouse monoclonal antibody (IgG1)

Antigen: Human factor IX, Human factor IXa, heavy chain of human factors IX and IXa

Vial

Application: RIA, Immunoblotting, ELISA, Immunohistochemistry

Host: Mouse

Immunogen: Human purified FVIII

9-AHIX-5041

Informations

Factor IX (FIXa)

Associated products

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated into FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium.

A person who is deficient in FIX has hemophilia B.

Rat monoclonal antibody anti-mouse activated

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-Factor IX

## Rat monoclonal antibody anti-mouse activated Factor IX (FIXa)











Mouse monoclonal antibody anti-human Factor IX, lgG1

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FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated into FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.

Reference	Presentation	Format
9-AMIXA-9041	Vial	100 µg
9-AMIXA-9042	Vial	100 µg

#### Antigen: mouse FIX and FIXa

Application: Immunoblotting, ELISA, Purification Host: Rat Immunogen: Purified mouse FIXa

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







During the coagulation cascade, prothrombin is activated by the prothrombinase complex (FXa, FVa

in the presence of phospholipid and calcium) into thrombin which plays a central role in the

coagulation process. It will indeed transform fibringen into fibrin, amplify its own formation

and activate the protein C, TAFI and platelet

**Anti-thrombin** 

Informations

systems.

## Mouse monoclonal antibody anti-human thrombin, IgG1











Reference	Presentation	Format
9-AHT-5020	Vial	100 µg



Application: ELISA, inhibits the clot but not amidase activity.

kD (IIa)= 1.4.10-8 M; kD (IIa-ATIII)= 1.4.10-8 M Inhibits clotting but not amidase activity

Immunogen: purified human thrombin



Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

Characteristics







Anti-Factor X

Associated products

## Mouse monoclonal antibody anti-bovine Factor X, IgG1





Mouse monoclonal antibody anti-human Factor X, IgG1

Rat monoclonal antibody anti-mouse Factor X, heavy chain

Rat monoclonal antibody anti-mouse Factor X, heavy chain FX/FXa

#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.



Reference	Presentation	Format
9-ABX-5051	Vial	100 µд

Antigen: heavy chain of FX and FXa (reactive toward human, bovine, rabbit, sheep, porcine and canine Factor X), BEGRck FXa

Application:

kDa = 9X10-11, RIA, Immunoblotting, ELISA, purification, inhibitor (aPTT and PT), partial calcium dependance.

. Host : Mouse

Immunogen: Purified bovine FX

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities.

#### Characteristics







**Anti-Factor X** 

### Mouse monoclonal antibody anti-human Factor X, IgG1









	RUO	-25°C	∕-15°C		
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Associated products

Mouse monoclonal antibody anti-bovine Factor X,

Rat monoclonal antibody anti-mouse Factor X, heavy chain

Rat monoclonal antibody anti-mouse Factor X, heavy chain FX/FXa

Reference	Presentation	Format
9-AHX-5050	Vial	100 µg

Origin: Mouse monoclonal antibody IgG1

Antigen: heavy chains of human FXa and FX, does not bind bovine Factor FX or BEGRck-FXa

Application: Purification, Inhibitor (PT, prothrombinase, aPTT partially but not amidase activity)

Immunogen: Human FX purified



#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-Factor X** 

## Rat monoclonal antibody anti-mouse Factor X, heavy chain









Associated products	Ass	ocial	ed	prod	ucts
---------------------	-----	-------	----	------	------

Mouse monoclonal antibody anti-bovine Factor X,

Mouse monoclonal antibody anti-human Factor X, laG1

Rat monoclonal antibody anti-mouse Factor X, heavy chain FX/FXa

Reference	Presentation	Format	
9-AMX-9051	Vial	100 µg	

Antigen: heavy chain of mouse FX

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: Purified mouse FX



#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K.

FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-Factor X

## Rat monoclonal antibody anti-mouse Factor X, heavy chain FX/FXa











Associa	ted p	orod	ucts
---------	-------	------	------

Mouse monoclonal antibody anti-bovine Factor X,

Mouse monoclonal antibody anti-human Factor X, laG1

Rat monoclonal antibody anti-mouse Factor X, heavy chain

Reference	Presentation	Format
9-AMX-9050	Vial	100 µg

#### Antigen: heavy chain of mouse FX and FXa, human FX and FXa

Application: Immunoblotting (mouse FX / FXa heavy chain and human FX / FXa), ELISA (mouse

FX and FXa) Host: Mouse

Immunogen: Purified mouse FX



#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.

#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-vitronectin** 

## Mouse monoclonal antibody anti-vitronectin, 2VN, IgG







Reference	Presentation	Format
4-TC21511	Vial	500 µд

### Informations

Vitronectin (Vn) is an adhesive glycoprotein, synthesized by the liver, released in plasma and present in the extracellular matrix. Vn binds PAI-1. This complex fully activates PAI-1, unlike PAI-1 in solution, where it does not appear to be stable and inactive. Vn therefore seems to regulate the enzymatic specificity of PAI-1, by stabilizing it. Decreased Vn levels occur in DICs and liver disease (cirrhosis). Vn deposition is associated with atherosclerotic lesions.

#### **Human vitronectin**

 ${\bf Application: Immunoblotting, ELISA}$ 

Host: Mouse

Immunogen: purified human vitronectin

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7,4. After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated freezing and thawing cycles.







Factor XI (FXI) is a protein synthesized by the liver.

It participates in the contact phase which initiates the intrinsic pathway of coagulation. It is activated by FXIIa to factor FXIa which will itself activate FIX

**Anti-Factor XI** 

Informations

in the presence of calcium ions.

## Mouse monoclonal antibody anti-human Factor XI, IgG











Reference	Presentation	Format
9-AHXI-5061	Vial	100 µg

Origine: Mouse monoclonal antibody IgG Antigen: human FXI antigen, human FXIa,

Application: Immunoblotting non reduced only, RIA, Inhibitory in clotting assay (aPTT),

purification Host: Mouse

Immunogen: Purified human FXI



#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





The cleavage of fibrinogen to fibrin by thrombin is the final event of the coagulation cascade.

Fibrinogen is an M40 kDa glycoprotein synthesized by the liver. Thrombin cleaves the NH2 end of the

Aa chain releasing fibrinopeptide A and generating fibrin. Thrombin also cleaves the NH2 end of the Bb chain releasing fibrinopeptide B. Fibrinopeptides allow the Aa and Bb chains to polymerize and form

**Anti-fibrin** 

Informations

the fibrin network.

## Murine monoclonal antibody anti-human fibrin ß-chain (IgG1)









Reference	Presentation	Format
11-350	Vial	0.5 mg

Antigen: Beta chain of fibrinogen / human fibrin (57 kDa)

Application: IHC Host: Mouse



#### Advantages

The lyophilized presentation allows greater stability until the expiration date.





Anti-fibronectin

## Mouse monoclonal antibody anti-fibronectin, 2FN, IgG







Associated products
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Mouse monoclonal antibody anti-fibronectin, 6FN, IgG2a

#### Informations

Fibronectin is a glycoprotein that exists in soluble form in plasma or in fibrillar form in the extracellular matrix. This protein modulates the interactions between cells and the extracellular matrix. In the absence of fibrinogen, fibronectin controls cogulation. Fibronectin can bind to fibrin to strengthen clots and make them more stable. Fibronectin has shown roles in platelet function, fibrinolysis, chemotaxis, phagocytosis, and opsonization. In certain pathologies such as trauma, sepsis, liver disorders, the fibronectin level may be low. Conversely, some cancers can have high fibronectin levels.

Reference	Presentation	Format
4-TC21223	Vial	500 µд

#### Human fibronectin.

Application: Immunoblotting, ELISA

Host: Mouse



Antibody lyophilized from an isotonic solution of 1 mg / mL in PBS buffer pH 7.4 containing 0.02% sodium azide. They must be reconstituted with 0.5mL of distilled water.







Anti-fibronectin

Associated products

## Mouse monoclonal antibody anti-fibronectin, 6FN, IgG2a









### Mouse monoclonal antibody anti-fibronectin, 2FN,

#### Informations

Fibronectin is a glycoprotein that exists in soluble form in plasma or in fibrillar form in the extracellular matrix. This protein modulates the interactions between cells and the extracellular matrix. In the absence of fibrinogen, fibronectin controls cogulation.

Fibronectin can bind to fibrin to strengthen clots and make them more stable. Fibronectin has shown roles in platelet function, fibrinolysis, chemotaxis, phagocytosis, and opsonization. In certain pathologies such as trauma, sepsis, liver disorders, the fibronectin level may be low.

Conversely, some cancers can have high fibronectin levels.

## ReferencePresentationFormat4-TC21243Vial500 μg

#### Human fibronectin.

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: human fibronectin purified

#### Characteristics

Antibody lyophilized from an isotonic solution of 1 mg / mL in PBS buffer pH 7.4 containing 0.02% sodium azide. They must be reconstituted with 0.5mL of distilled water.



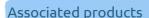




Anti-plasminogen activator inhibitor type-1 (PAI-1)

## Mouse monoclonal antibody anti-human PAI-1, 1PAI, IgG2b





Mouse monoclonal antibody anti-human PAI-1, 3PAI, (IgG2b)

Mouse monoclonal antibody anti-human PAI-1, 5PAI, (IgG1)

#### Informations

Plasminogen activator inhibitor 1 (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an essential role in controlling any excessive activation of fibrinolysis. It is present in plasma associated with vitronectin, in free form or associated with t-PA and in the alpha granules of platelets. Fibrinolysis corresponds to the solubilization of the fibrinous thrombus by plasmin, an enzyme originating from plasminogen adsorbed to fibrin. Plasminogen is activated by t-PA and u-Pa. PAI-1 by inhibiting plasminogen activators, controls the degradation of fibrinous thrombus. A decrease in fibrinolytic activity promotes the occurrence of thrombosis, while excessive fibrinolysis leads to hemorrhages.





Reference	Presentation	Format
4-TC21163	Vial	500 µg

Antigen: active PAI-1, latent PAI-1 and t-PA-PAI-1 complexes; no cross reaction with PAI-2 or PAI-3.

Application: ELISA, immunodepletion

Immunogen: purified PAI-1 from the human melanoma cell line



Antibody lyophilized from an isotonic solution of 1 mg / mL in PBS buffer pH 7.4 containing 0.02% sodium azide. They must be reconstituted with 0.5mL of distilled water.







Anti-plasminogen activator inhibitor type-1 (PAI-1)

## Mouse monoclonal antibody anti-human PAI-1, **3PAI, (IgG2b)**





Mouse monoclonal antibody anti-human PAI-1, 1PAI, IqG2b

5PAI, (IgG1)

Mouse monoclonal antibody anti-human PAI-1,

#### Informations

Plasminogen activator inhibitor 1 (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an essential role in controlling any excessive activation of fibrinolysis. It is present in plasma associated with vitronectin, in free form or associated with t-PA and in the alpha granules of platelets. Fibrinolysis corresponds to the solubilization of the fibrinous thrombus by plasmin, an enzyme originating from plasminogen adsorbed to fibrin. Plasminogen is activated by t-PA and u-Pa. PAI-1 by inhibiting plasminogen activators, controls the degradation of fibrinous thrombus. A decrease in fibrinolytic activity promotes the occurrence of thrombosis, while excessive fibrinolysis leads to hemorrhages.



Reference	Presentation	Format
4-TC21173	Vial	500 µд

Antigen: active PAI-1, latent PAI-1 and t-PA-PAI-1 complexes; no cross-reaction with PAI-2 or with PAI-3. Interferes with the functional activity of PAI-1.

Application: ELISA, immunodepletion

Host: Mouse



Antibody lyophilized from an isotonic solution of 1 mg / mL in PBS buffer pH 7.4 containing 0.02% sodium azide. They must be reconstituted with 0.5mL of distilled water.



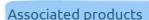




Anti-plasminogen activator inhibitor type-1 (PAI-1)

# Mouse monoclonal antibody anti-human PAI-1, 5PAI, (IgG1)





Mouse monoclonal antibody anti-human PAI-1, 1PAI, IgG2b

Mouse monoclonal antibody anti-human PAI-1, 3PAI, (IgG2b)



Reference	Presentation	Format
4-TC21193	Vial	500 µд

Antigen: Reaction with active and latent PAI-1 and t-PA-PAI-1 complexes; no cross-reaction with PAI-2 or with PAI-3. Interferes with the functional activity of PAI-1.

Application : ELISA, immunodepletion, IHC

Host: Mouse



#### Informations

Plasminogen activator inhibitor 1 (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an essential role in controlling any excessive activation of fibrinolysis. It is present in plasma associated with vitronectin, in free form or associated with t-PA and in the alpha granules of platelets. Fibrinolysis corresponds to the solubilization of the fibrinous thrombus by plasmin, an enzyme originating from plasminogen adsorbed to fibrin. Plasminogen is activated by t-PA and u-Pa. PAI-1 by inhibiting plasminogen activators, controls the degradation of fibrinous thrombus. A decrease in fibrinolytic activity promotes the occurrence of thrombosis, while excessive fibrinolysis leads to hemorrhages.

#### Characteristics

Antibody lyophilized from an isotonic solution of 1 mg / mL in PBS buffer pH 7.4 containing 0.02% sodium azide. They must be reconstituted with 0.5mL of distilled water.





TFPI (Tissue Factor Pathway Inhibitor) is an

anticoagulant protein produced by the endothelial

Its role is to inhibit the early phases of coagulation

by blocking the FT-FVIIa complex as well as the FXa.

**Anti-TFPI** 

Informations

cell and found on its surface.

## Anti-human Tissue Factor Pathway Inhibitor, IgG









Reference	Presentation	Format	
9-AHTFPI-5138	Vial	100 µg	Ī

**Antigen: Human TFPI** 

Formulation: 50 % Glycerol / H2O (v/v)

Application: Immunoblotting, ELISA Host: Mouse monoclonal IgG

Immunogen: 16 Amino Acid N-Terminal Peptide

(Asp-Ser-Glu-Glu-Asp-Glu-Glu-His-Thr-Ile-Ile-Thr-Asp-Thr-Glu-Cys)



#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





**Anti-Protein C inhibitor** 

# Mouse monoclonal antibody anti-protein C inhibitor, 4PCI, (IgG1)

**Format** 

500 µg





4-TC21353



Vial

2°C/	
Reference	Presentation

### Informations

Protein C inhibitor (PCI) is a plasma serine protease which primarily inhibits protein C but also inhibits thrombin, FXa, t-PA, trypsin, chymotrypsin. Its action is amplified in the presence of high concentrations of heparin.

Antigen: PCI and PCI target enzyme complexes.

Application: ELISA, immunodepletion, purification

Host: Mouse



#### Characteristics

Antibody lyophilized from an isotonic solution of 1 mg / mL in PBS buffer pH 7.4 containing 0.02% sodium azide. They must be reconstituted with 0.5mL of distilled water.





Osteocalcin is a major protein in the inter-fibrillar substance of bone tissue, of which it constitutes

one of the non-collagenic proteins. With a mass of 5800 Da, 90% of it is incorporated into the organic matrix of the bone and 10% passes intact into the

bloodstream with a half-life of 5 min. Osteocalcin promotes the formation of hydroxyapatite crystals, essential components of the mineral substance of

bone which ensures its rigidity and solidity.

**Anti-osteocalcin** 

Informations

## Mouse monoclonal antibody anti-bovine osteocalcin, IgG1











Reference	Presentation	Format	
9-ABOC-5021	Vial	100 µд	



Application: RIA, Immunoblotting, ELISA, IHC, purification, (calcium dependent)

Immunogen: unfractionated bovine bone extract



#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-urokinase type plasminogen activator (u-PA)

## Murine monoclonal antibody against human uPA

**Format** 

1 x 250 µg





26-ADG3689



2 63	
Reference	Presentation

#### Informations

Belonging to the serine protease family. uPA activates plasminogen to convert it into plasmin, an enzyme allowing the degradation of fibrin. It intervenes in the phases of dissolution of the clot during fibrinolysis.

This monoclonal antibody (HD-UK1 clone, IgG1) is a murine antibody recognizing human urokinase (uPA) plasminogen type plasminogen activator (uPA). It has been purified from the cell culture supernatant using protein G affinity chromatography.

Vial

Applications: Immunoblotting, ELISA, inhibition of plasminogen activation, immunohistochemistry and flow cytometry.

Source: Mouse

Immunogen: Human urokinase

#### Characteristics

Sterile product filtered through 0.2 µm. Purity > 90%. Concentration: 1 mg/mL No preservatives added. For long term storage, the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.





Informations

during fibrinolysis.

#### **MONOCLONAL ANTIBODIES**

Belonging to the family of serine proteases.

UPA activates plasminogen to convert it into

plasmin, an enzyme that breaks down fibrin.
It intervenes in the phases of dissolution of the clot

Anti-urokinase type plasminogen activator (u-PA)

# Mouse monoclonal antibody anti-human u-PA, 4UK, IgG1







Reference	Presentation	Format
4-TC21063	Vial	500 µg

Antigen: double chain of urokinase and single chain of pro-urokinase.

Application : ELISA Host : Mouse

Immunogen: high molecular weight purified human urokinase of urinary origin



#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4. After reconstitution the antibodies should be aliquoted and stored at -20 °C. Avoid repeated freezing and thawing cycles.





Osteonectin is an adhesion protein to the

It plays an important role in cell cohesion as well as

in embryogenesis and healing processes.

**Anti-osteonectin** 

Informations

extracellular matrix.

## Mouse monoclonal antibody anti-human osteonectin (IgG1)











Reference	Presentation	Format	
9-AON-5031	Vial	100 µg	Ī

Antigen: Mouse, rat, human osteonectin, platelet osteonectin and mouse osteonectin in IHC

Application: RIA, Immunoblotting, ELISA, IHC, purification, (calcium dependent)

Immunogen: Purified human osteonectin



#### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-tissue type plasminogen activator (t-PA)

## Mouse monoclonal antibody anti-t-PA (epitope kringle 2 domain) 7VPA, (IgG1)









#### Associated products

Mouse monoclonal antibody anti-t-PA, (IgG1)

Mouse monoclonal antibody anti-t-PA (epitope on the light chain) 2VPa, (IgM)

Reference	Presentation	Format	
4-TC21053	Vial	500 µg	

Antigen: Reaction with an epitope expressed on kringle 2.

Application: ELISA, competitive inhibition

Host: Mouse



#### Informations

Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line the blood vessels.

Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme.

Due to its lysis activity, t-PA is used in clinical medicine to treat cerebral embolism and thrombosis.

Its use is contraindicated in cases of cerebral hemorrhage or head trauma.

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated freezing and thawing cycles.





Anti-tissue type plasminogen activator (t-PA)

### Mouse monoclonal antibody anti-t-PA, (IgG1)



### Associated products

Mouse monoclonal antibody anti-t-PA (epitope kringle 2 domain) 7VPA, (IgG1)

Mouse monoclonal antibody anti-t-PA (epitope on the light chain) 2VPa, (IgM)

## RUO 2°C / 8°C

Reference	Presentation	Format
4-TC21023	Vial	500 µg

Antigen: epitope expressed on both the finger domain and growth Factor domain of t-PA. 3VPA, Binds to t-PA.

Application: ELISA, competitive inhibition

Host: Mouse



#### Informations

Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line the blood vessels.

Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme. Due to its lysis activity, t-PA is used in clinical medicine to treat cerebral embolism and thrombosis.

Its use is contraindicated in cases of cerebral hemorrhage or head trauma.

### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20°C.

Avoid repeated freezing and thawing cycles.





Anti-tissue type plasminogen activator (t-PA)

### Mouse monoclonal antibody anti-t-PA (epitope on the light chain) 2VPa, (IgM)









RUO	2°C / 8°C	
KUU	2°C./	

Reference	Presentation	Format	
4-TC21013	Vial	500 µд	

Antigen: reaction with free t-PA and t-PA-PAI-1 complexes, no cross-reaction with u-PA. Directed against an epitope on the light chain of t-PA away from the active site.

Application: ELISA Host: Mouse

Immunogen: purified t-PA from melanoma



### Informations

Associated products

kringle 2 domain) 7VPA, (IgG1)

Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line the blood vessels. Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme. Due to its lysis activity, t-PA is used in clinical medicine to treat cerebral embolism and thrombosis. Its use is contraindicated in cases of cerebral hemorrhage or head trauma.

Mouse monoclonal antibody anti-t-PA (epitope

Mouse monoclonal antibody anti-t-PA, (IgG1)

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated freezing and thawing cycles.





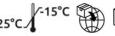


Anti-plasminogen

### Rat monoclonal antibody anti-mouse plasminogen









* R	UO	-25°C./	∕-15°C		
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Associated products	Reference	Presentation	Format
Maura manadanal natika du nati human	9-AMPG-9130	Vial	100 μg
Mouse monoclonal antibody anti-human			

Antigen: mouse plasminogen in reduced and unreduced condition and plasmin in unreduced condition

Application: Immunoblotting, ELISA Host: Rat Immunogen: Purified mouse plasminogen



### Informations

plasminogen, 1PG, IgG1

plasminogen, 2PG, IgG1

plasminogen, 4PG, IgG1

Mouse monoclonal antibody anti-human

Mouse monoclonal antibody anti-human

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.

### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics

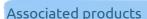




Anti-plasminogen

### Mouse monoclonal antibody anti-human plasminogen, 1PG, IgG1





Rat monoclonal antibody anti-mouse plasminogen

Mouse monoclonal antibody anti-human plasminogen, 2PG, IgG1

Mouse monoclonal antibody anti-human plasminogen, 4PG, IgG1

### Informations

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea.

It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active

The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.





Reference	Presentation	Format
4-TC21103	Vial	500 µд

Antigen: Glu-Plasminogen, reaction with Lys-Plasminogen; reaction with Plasmin-Alpha-2-Antiplasmin complexes with Glu-forms.

Application: ELISA, Glu/Lys separation, biochemical and pharmacological studies

Host: Mouse

Immunogen: purified human plasminogen

### Characteristics

Lyophilized antibody stored at 4°C from a 1 mg/ mL solution in PBS buffer of pH 7.4 with 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution with 0.5mL of distilled water, aliquot the antibody and store it at -20 °C. Avoid repeated freeze / thaw cycles.



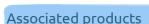




Anti-plasminogen

## Mouse monoclonal antibody anti-human plasminogen, 2PG, IgG1





Rat monoclonal antibody anti-mouse plasminogen

Mouse monoclonal antibody anti-human plasminogen, 1PG, IgG1

Mouse monoclonal antibody anti-human plasminogen, 4PG, IgG1

### Informations

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea.

It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form).

The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.



Reference	Presentation	Format
4-TC21113	Vial	500 µg

Antigen: Glu- and Lys-Plasminogen as well as with Plasmin-Alpha-2-Antiplasmin complexes. Directed against an epitope on the kringle 1-3 elastase fragment of plasminogen.

Application: ELISA, biochemical and pharmacological studies Host: Mouse Immunogen: purified human plasminogen

#### Characteristics

Lyophilized antibody stored at 4 ° C from a 1 mg / mL solution in PBS buffer of pH 7.4 with 0.02% sodium azide and 20 mg / mL mannitol.

After reconstitution with 0.5mL of distilled water, aliquot the antibody and store it at -20 ° C.

Avoid repeated freeze / thaw cycles.







Anti-plasminogen

## Mouse monoclonal antibody anti-human plasminogen, 4PG, IgG1





Rat monoclonal antibody anti-mouse plasminogen

Mouse monoclonal antibody anti-human plasminogen, 1PG, IgG1

Mouse monoclonal antibody anti-human plasminogen, 2PG, IgG1

### Informations

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.



Reference	Presentation	Format
4-TC21123	Vial	500 µд

Antigen: plasminogen and free plasmin only.

Application: ELISA, biochemical and pharmacological studies Inhibition of plasminogen

activation Host : Mouse

Immunogen: plasminogen



Lyophilized antibody stored at 4 ° C from a 1 mg / mL solution in PBS buffer of pH 7.4 with 0.02% sodium azide and 20 mg / mL mannitol. After reconstitution with 0.5mL of distilled water, aliquot the antibody and store it at -20 ° C. Avoid repeated freeze / thaw cycles.







Anti-plasminogen

# Mouse monoclonal antibody anti-human plasminogen, 7PG, IgG1





Rat monoclonal antibody anti-mouse plasminogen

Mouse monoclonal antibody anti-human plasminogen, 1PG, IgG1

Mouse monoclonal antibody anti-human plasminogen, 2PG, IgG1

### Informations

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system.

Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form).

The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.



Reference	Presentation	Format
4-TC21133	Vial	500 µд

Free plasminogen or plasmin in complex with Alpha-2-Antiplasmin. Directed against an epitope on the kringle 4 elastase fragment of plasminogen.

Application: Research, biochemical and pharmacological studies

Host: Mouse

Immunogen: plasminogen

### Characteristics

Lyophilized antibody stored at 4 ° C from a 1 mg / mL solution in PBS buffer of pH 7.4 with 0.02% sodium azide and 20 mg / mL mannitol.

After reconstitution with 0.5mL of distilled water, aliquot the antibody and store it at -20 ° C.

Avoid repeated freeze / thaw cycles.







Anti-α-2-antiplasmin

# Mouse monoclonal antibody anti-α-2-Antiplasmin, 2AP, IgG1







### Associated products

Mouse monoclonal antibody anti-α-2-Antiplasmin,14AP, IgG2a

Mouse monoclonal antibody anti-α-2-Antiplasmin,7AP, IgG1

### Informations

Alpha 2-antiplasmin ( $\alpha$ -2-antiplasmin or  $\alpha$ -2-AP) is the main inhibitor of plasmin, a key enzyme in fibrinolysis. It binds to FXIII and fibrin, allowing stabilization of the thrombus.



Antigen: native  $\alpha$ -2-antiplasmin and degraded  $\alpha$ -2-antiplasmin and plasmin- $\alpha$ -2-antiplasmin complexes.

Application : ELISA Host : Mouse

Immunogen: purified α-2-antiplasmin

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol.

After reconstitution the antibodies should be aliquoted and stored at -20°C.

Avoid repeated freezing and thawing cycles.







Anti-α-2-antiplasmin

## Mouse monoclonal antibody anti-α-2-Antiplasmin, 3AP, IgG1







Associa	Fod	0500	lucto
M330Cla	ceu	proc	Juccs

Mouse monoclonal antibody anti- $\alpha$ -2-Antiplasmin, 2AP, IgG1

Mouse monoclonal antibody anti-α-2-Antiplasmin,14AP, IgG2a

Mouse monoclonal antibody anti-α-2-Antiplasmin,7AP, IgG1

Reference	Presentation	Format	
4-TC21093	Vial	500 µg	

Antigen: native  $\alpha$ -2-antiplasmin and plasmin- $\alpha$ -2-antiplasmin complexes.

Application : Separation of the  $\alpha$ -2-AP form bound / free to plasminogen, detection of uncleaved  $\alpha$ -2-antiplasmin.

Host : Mouse



### Informations

Alpha 2-antiplasmin ( $\alpha$ -2-antiplasmin or  $\alpha$ -2-AP) is the main inhibitor of plasmin, a key enzyme in fibrinolysis.

It binds to FXIII and fibrin, allowing stabilization of the thrombus.

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol.

After reconstitution the antibodies should be aliquoted and stored at -20°C.

Avoid repeated freezing and thawing cycles.





Anti-α-2-antiplasmin

# Mouse monoclonal antibody anti-α-2-Antiplasmin,14AP, IgG2a







### Associated products

Mouse monoclonal antibody anti-α-2-Antiplasmin,7AP, IgG1

### Informations

Alpha 2-antiplasmin ( $\alpha$ -2-antiplasmin or  $\alpha$ -2-AP) is the main inhibitor of plasmin, a key enzyme in fibrinolysis.

It binds to FXIII and fibrin, allowing stabilization of the thrombus.

Reference	Presentation	Format
4-TC21265	Vial	500 µg

#### Functional $\alpha$ -2-antiplasmin.

Application: ELISA, activity α-2-antiplasmin inhibition

Host: Mouse

Immunogen: purified α-2-antiplasmin

### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated freezing and thawing cycles.







Anti-a-2-antiplasmin

# Mouse monoclonal antibody anti-α-2-Antiplasmin,7AP, IgG1







### Associated products

Mouse monoclonal antibody anti-a-2-Antiplasmin,14AP, IgG2a

### Informations

Alpha 2-antiplasmin ( $\alpha$ -2-antiplasmin or  $\alpha$ -2-AP) is the main inhibitor of plasmin, a key enzyme in fibrinolysis.

It binds to FXIII and fibrin, allowing stabilization of the thrombus.

Reference	Presentation	Format
4-TC21263	Vial	500 µд

Antigen: Recognizes the neoantigen of the plasmin-alpha-2-antiplasmin complex. Does not react with free plasminogen or free alpha-2-antiplasmin.

Application: Immunoblotting, ELISA, inhibition of AP

Host: Mouse

Immunogen : α-2-antiplasmin

#### Characteristics

Antibodies lyophilized from a solution of 1 mg/mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg/mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20°C. Avoid repeated freezing and thawing cycles.







Anti-protein C

### Rat monoclonal antibody anti-mouse Protein C









RUO	-25°C √-15°C		
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Associated	products
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Rat monoclonal antibody anti-mouse PC

Mouse monoclonal antibody anti-human protein C,

Mouse monoclonal antibody anti-human protein C,

IgG2b

Reference	Presentation	Format
9-AMPC-9071	Vial	100 µg

Antigen: mouse Protein C

Application: Immunoblotting, ELISA

Host: Rat

Immunogen: Purified Mouse Protein C



### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 μg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S. calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.

### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics

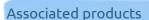




Anti-protein C

### Rat monoclonal antibody anti-mouse PC





Rat monoclonal antibody anti-mouse Protein C

Mouse monoclonal antibody anti-human protein C, IgG1

Mouse monoclonal antibody anti-human protein C, IgG2b



Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 μg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S. calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.



Reference	Presentation	Format
9-AMPC-9072	Vial	100 µg

Origin: Rat monoclonal antibody

Antigen: Mouse Protein C (PC) and activated protein C (aPC)

ELISA: Protein C and activated protein C

Western blot: Protein C only (not aactivated Protein C), does not cross-react with human Protein C/activated Protein C. Does not inhibit activated Protein C. Weak inhibition of PC

activation Host: Rat

Immunogen: Purified Mouse Protein C Formulation: 50 % Glycerol / H₂O (v/v)

### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics







Anti-protein C

### Mouse monoclonal antibody anti-human protein C, IgG1











Associa	Fod	0500	lucto
M330Cla	ceu	proc	Juccs

Rat monoclonal antibody anti-mouse Protein C

Rat monoclonal antibody anti-mouse PC

Mouse monoclonal antibody anti-human protein C, IqG2b

### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis.

PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 µg/mL.

Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor. protein S, calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.

#### Reference Presentation **Format** Vial 9-AHPC-5071 100 µg

Origin: Anticorps monoclonal de souris (IgG1)

Antigen: human Protein C (PC) and activated Protein C (aPC)

Application: Immunoblotting, ELISA, RIA, purification

Host: Mouse

Immunogen: Purified human protein C, and activated Protein C

Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request.

Discount according to quantities

### Characteristics







Anti-protein C

### Mouse monoclonal antibody anti-human protein C, IgG2b









Ka	RUO	-25°C	·15°C	

Asso	ocia	ted	рго	duct	S

Rat monoclonal antibody anti-mouse Protein C

Rat monoclonal antibody anti-mouse PC

Mouse monoclonal antibody anti-human protein C, IqG1

Reference	Presentation	Format
9-AHPC-5072	Vial	100 µg

Antigen: mouse PC and aPC

Application: ELISA, purification, Immunoblotting

Host: Mouse

Immunogène: Protéine C humaine purifiée



### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 µg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S, calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.

### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request.

Discount according to quantities

### Characteristics





Anti-tissue Factor

### Monoclonal Antibody against Human Tissue **Factor**









### Associated products

Anti-Tissue Factor (IgG) murine monoclonal antibody

Murine monoclonal antibody anti-human tissue Factor, FITC conjugated

Murine monoclonal antibody anti-human tissue Factor, IIID8

Reference	Presentation	Format	
26-ADG4508	Vial	0.5 mg	

The monoclonal antibody ADG4508 (clone VD8, subclass IgG1) is directed against an epitope within aa 1-25, the extracellular domain of human tissue factor.

Applications: Immunoblotting, Immunohistochemistry, Flow Cytometry, Host: Human Immunogen: Tissue Factor

### Informations

Tissue Factor (TF, CD142) is a 45 kDa transmembrane cell surface glycoprotein known for its role in initiating coagulation.

It is comprised of three domains: an extracellular domain (aa 1-219), a hydrophilic spanning domain (aa 220-242) and a cytoplasmic tail (aa 243-263).

### Characteristics

Screw capped vial containing 0.5 mg of purified antibody in PBS pH 7.4, 0.01 % ProClin, sterile. The IgG concentration is 2 mg/mL. Spin the vial briefly before opening.

For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.





**Anti-tissue Factor** 

### Anti-Tissue Factor (IgG) murine monoclonal antibody











Assoc	iate	a be	rod	ucts
, 13300		- U P		G C C S

Murine monoclonal antibody anti-human tissue Factor, FITC conjugated

Murine monoclonal antibody anti-human tissue Factor, IIID8

Murine monoclonal antibody anti-human tissue Factor, IgG

Reference	Presentation	Format	
9-AHTE-5264	Vial	100 ug	

Antigen: FT humain

Application: Immunoblotting, ELISA

Host: Mouse

Immunogen: Purified recombinant tissue factor (full-length)



### Informations

Tissue Factor or FT is a cell surface glycoprotein. This factor initiates the extrinsic pathway of the coagulation cascade and is a high affinity receptor for FVII.

The FVIIa / FT complex catalyzes the conversion of FX to FXa.

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities

### Characteristics





Anti-tissue Factor

### Murine monoclonal antibody anti-human tissue Factor, FITC conjugated

50 µg











Vial

### Associated products

Anti-Tissue Factor (IgG) murine monoclonal antibody

Murine monoclonal antibody anti-human tissue Factor, IIID8

Murine monoclonal antibody anti-human tissue Factor, IgG

2°C/		
Reference	Presentation	Format
11-4507CJ	Vial	50 µg

Antigen: epitope on amino acids of human tissue factor.

Application: Brain and placental thromboplastin inhibitor, IF and flow cytometry

Host: Mouse

Immunogen: Purified tissue factor

11-4508CJ

### Informations

Tissue Factor or FT is a cell surface glycoprotein. This factor initiates the extrinsic pathway of the coagulation cascade and is a high affinity receptor for FVII. The FVIIa / FT complex catalyzes the conversion of FX to FXa.

### Advantages

The lyophilized presentation allows greater stability until the expiration date.

### Characteristics

Antibodies lyophilized in 0.15M PBS buffer, 1% BSA, 0.01% gentamicin, pH 7.4. After reconstitution, stored in the dark at -20 °C.





**Anti-tissue Factor** 

Associated products

Factor, FITC conjugated

Anti-Tissue Factor (IgG) murine monoclonal

Murine monoclonal antibody anti-human tissue

Murine monoclonal antibody anti-human tissue

### Murine monoclonal antibody anti-human tissue Factor, IIID8











Reference	Presentation	Format
11-4509	Vial	0.5 mg

Antigen: epitope comprising amino acids 1 to 25 (extracellular domain of human tissue

FT human and rabbit

Applications: IHC, Immunoblotting, inhibitor of the procoagulant activity of FT

Host: Mouse

Immunogen: purified human FT (47 kDa)



antibody

Factor, IgG

Tissue Factor or FT is a cell surface glycoprotein. This factor initiates the extrinsic pathway of the coagulation cascade and is a high affinity receptor for FVII. The FVIIa / FT complex catalyzes the conversion of FX to FXa.

### Advantages

All the references benefit from decreasing prices according to the quantities ordered. The lyophilized presentation allows greater stability until the expiration date.

### Characteristics

Lyophilized antibody in a buffer containing 0.15M PBS, pH 6.8 with 100mM mannitol. Aliquot in distilled water to obtain a concentration of 0.5 mg/mL. Store at -20 ° C.







**Anti-tissue Factor** 

### Murine monoclonal antibody anti-human tissue Factor, IgG

**Format** 

0.5 mg





Anti-Tissue Factor (IgG) murine monoclonal antibody

Murine monoclonal antibody anti-human tissue Factor, FITC conjugated

Murine monoclonal antibody anti-human tissue Factor, IIID8

### Informations

Tissue Factor or FT (CD142) is a cell surface glycoprotein. This factor initiates the extrinsic pathway of the coagulation cascade and is a high affinity receptor for FVII. The FVIIa / FT complex catalyzes the conversion of FX to FXa.



Reference

11-4503



Murine lgG1 monoclonal antibody	purified from ascites by Protein (	G affinity
chromatography.		

Native human brain tissue factor, molecular weight of 47 000 Da, was used as the immunizing antigen.

Applications: Immunoblotting, Cytométrie de Flux, Immunohistochimie, Immunoprécipitation

Presentation

Vial

Host: Mouse

Immunogen: Purified Human TF (47 kDa)



Screw-capped glass vial containing 0.5 mg of purified antibody lyophilized from a 0.5 mL solution of 0.15 M Phosphate Buffered Saline, 100 mM Mannitol, pH 7.4.

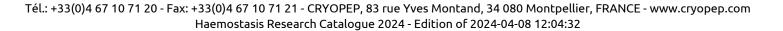
### Advantages

The lyophilized presentation allows greater stability until the expiration date.

### Characteristics

Add 0.5 mL of filtered deionized or sterile water to generate a 1.0 mg/mL stock solution. Store lyophilized antibody at +2°/+8°C. Aliquot and store reconstituted antibody at -20°C or colder.





Anti-protein S

### Mouse monoclonal antibody anti-human protein S, IgG1







N. C.	RUO	-25°C √	⁄-15°C	
18	RUO	-25°C	⁄-15°C	

Associa	tea pi	roauc	.CS	

Mouse monoclonal antibody anti-human protein S. IgG2b

### Informations

Protein S is a vitamin K dependent protein. It is a physiological inhibitor of coagulation. It acts as a cofactor of activated protein C by promoting the inactivation of FVa and FVIIIa, prothrombin, of the prothrombinase complex, FX. A protein S deficiency can be either acquired (hepatocellular insufficiency, vitamin K deficiency, anti-protein S antibody, ...) or constitutional (heterozygous or homozygous deficiency) grouped into 2 types depending on whether the deficiency is quantitative (type I) or qualitative (type II).

#### Reference Presentation **Format** Vial 9-AHPS-5092 100 µg

Antigen: Human protein S

Application: ELISA, Immunoblotting, RIA, purification

Host: Mouse

Immunogen: Human protein S

### Advantages

Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics







Mouse monoclonal antibody anti-human protein S,

Protein S is a vitamin K dependent protein. It is a physiological inhibitor of coagulation. It acts as a cofactor of activated protein C by promoting the

inactivation of FVa and FVIIIa, prothrombin, of the prothrombinase complex, FX. A protein S deficiency

can be either acquired (hepatocellular insufficiency,

vitamin K deficiency, anti-protein S antibody, ...) or

constitutional (heterozygous or homozygous

deficiency) grouped into 2 types depending on

whether the deficiency is quantitative (type I) or

Anti-protein S

Associated products

Informations

qualitative (type II).

lgG1

### Mouse monoclonal antibody anti-human protein S, IgG2b









***	RUO	-25°C.∕	

Reference	Presentation	Format
9-AHPS-5091	Vial	100 µg

Antigen: Human protein S and protein S/C4BP complex

Host: Mouse

Immunogen: Purified human protein S

## Application: RIA, Immunoblotting, ELISA, purification



Custom needs by supplying you conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics







Reference	Designation Click to go to the product sheet	Application	Source	Antigen	PM (g/mol)	Extinction coefficier WEB
Anti-Factor XIII						
9-PAHFXIII-S	→ Sheep polyclonal antibody anti-human Factor XIII	IB, ELISA	Sheep			<u> </u>
Anti-fibrinogen						
9-PAPFGN-S	→ Sheep pAb anti-porcine fibrinogen	IB, ELISA	Sheep	Fibrinogen		
Anti-heparin						
9-PAHCII-S	ightarrow Sheep polyclonal antibody anti-Human heparin coFactor II	IB, ELISA	Sheep	Heparin		•
Anti-plasminogen ad	ctivator inhibitor type-1 (PAI-1)					
4-TC31024	→ Rabbit polyclonal antibody anti-human PAI-1	IB, ELISA	Rabbit	PAI-1		<u> </u>
Anti-plasminogen						
9-PAHPG-S	→ Sheep polyclonal antibody anti-Human plasminogen	IB, ELISA	Sheep	Human		<u> </u>
				plasminogen		
9-PAMPG-S	→ Sheep pAb anti-mouse plasminogen	IB, ELISA	Sheep	Plasminogen		<u> </u>
Anti-protein C						
9-PAHPC-C	→ Chicken polyclonal antibody anti-human protein C	IB, ELISA	Chicken	Human and		<u> </u>
				murine protein C		
9-РАНРС-Н	ightarrow Horse polyclonal antibody anti-human protein C	IB, ELISA	Horse	Human protein C		
9-PAHPC-S	→ Sheep polyclonal antibody anti-human protein C	IB, ELISA	Sheep	Human protein C		<u> </u>
9-PAMPC-S	→ Sheep polyclonal antibody anti-mouse protein C	IB, ELISA	Sheep	Murine and		
				Human Protein C		
Anti-antithrombin						
9-PAHAT-S	ightarrow Sheep polyclonal antibody anti-human antithrombin	WB, ELISA	Sheep	Human	150 000	<u> </u>
				antithrombin		
9-PAMAT-S	→ Sheep polyclonal antibody anti-mouse antithrombin	IB, ELISA	Sheep	Mouse	150 000	
			•	antithrombin		



Reference	Designation Click to go to the product sheet	Application	Source	Antigen	PM (g/mol)	Extinction coefficier WEB
Anti-protein S						
9-PAHPS-S	→ Sheep polyclonal antibody anti-human protein S	IB, ELISA, RIEP	Sheep	Human S protein		<u> </u>
Anti-Factor V						
9-PAHFV-H	→ Horse polyclonal antibody anti-human Factor V	IB, ELISA	Horse	Human Factor V	-	<del></del>
9-PABFV-S	→ Sheep polyclonal antibody anti-bovine Factor V	IB, ELISA	Sheep	Bovine Factor V		
9-PAHFV-S	→ Sheep polyclonal antibody anti-human Factor V	IB, ELISA	Sheep	Human Factor V	150 000	<u> </u>
Anti-protein Z						
9-PAHPZ-S	→ Sheep polyclonal antibody anti-human protein Z	IB, ELISA	Sheep	Human Z protein		<del></del>
Anti-Factor Va						
9-PAHFVA-S	→ Sheep polyclonal antibody anti-human Factor Va	IB, ELISA	Sheep	Human FV et FVa		<del></del>
Anti-prothrombin						
9-PAHFII-BU	→ Burro polyclonal antibody anti-human prothrombin	IB, ELISA	Burro	Human		<u> </u>
				prothrombin		
9-PAHFII-S	→ Sheep polyclonal antibody anti-human prothrombin	IB, ELISA	Sheep	Human		
			•	prothrombin		
9-PAMFII-S	→ Sheep polyclonal antibody anti-mouse prothrombin	IB, ELISA	Sheep	Mouse, rat,	150 000	<u> </u>
				human		
				prothrombin.		
Anti-tissue Factor						
11-4501	→ Goat polyclonal antibody anti-human tissue Factor (lgG)	IB, Inhib.	Goat	Tissue factor		
9-PAHTF-S	→ Sheep polyclonal antibody anti-human tissue Factor	IB, ELISA	Sheep	Tissue factor		<u> </u>
Anti-Factor VII						
9-PAHFVII-S	→ Sheep polyclonal antibody anti-human FVII	IB, ELISA	Sheep	Human Factor VII	150 000	
				and VIIa		_··



Reference	Designation Click to go to the product sheet	Application	Source	Antigen	PM (g/mol)	Extinction coefficier WEB
Anti-TAFI						
9-PATAFI-S	→ Sheep polyclonal antibody anti-human TAFI	IB, ELISA, RIEP	Sheep	Human TAFI	150 000	<u> </u>
Anti-Factor VIIa						
9-PAHFVIIA-RAB	→ Rabbit polyclonal antibody anti-human FVIIa	IB, ELISA	Rabbit	Human Factor		
				VIIa		
Anti-TFPI						
9-PAHTFPI-S	→ Sheep polyclonal antibody anti-Human TFPI	IB, ELISA	Sheep	Human TFPI	•	<u> </u>
Anti-tissue type plas	sminogen activator (t-PA)					
4-TC31004	→ Rabbit polyclonal antibody anti- human t-PA	IB, ELISA	Rabbit	t-PA		
Anti-Factor VIII						
9-PAHFVIII-S	→ Sheep polyclonal antibody anti-human FVIII	IB, ELISA, RIEP	Sheep	Human Factor VIII		
Anti-thrombin						
9-PAHT-S	ightarrow Sheep polyclonal antibody anti-human thrombin	IB, ELISA	Sheep	Human and		
				mouse thrombin		
Anti-urokinase type	plasminogen activator (u-PA)					
4-TC31014	→ Rabbit polyclonal antibody anti-u-PA	RIA, ELISA, purif.	Rabbit	u-PA		
Anti-Factor IX						
9-PAHFIX-C	→ Chicken polyclonal antibody anti-human Factor IX	IB, ELISA	Chicken	Human Factor IX		<u> </u>
9-PAHFIX-S	→ Sheep polyclonal antibody anti-human Factor IX	IB, ELISA	Sheep	Human Factor IX		
9-PARFIX-S	→ Sheep polyclonal antibody Anti-rat Factor IX	IB, ELISA	Sheep	Factor IX		<u> </u>
Anti-vitronectin						
4-TC31054	→ Rabbit polyclonal antibody anti-human vitronectin	ELISA	Rabbit	Human vitronectin		
Anti-Factor X						
9-PAHFX-S	ightarrow Sheep polyclonal antibody anti-human Factor X	IB, ELISA, RIEP	Sheep	Human FX	150 000	
9-PAMFX-S	→ Sheep polyclonal antibody anti-mouse Factor X	IB, ELISA	Sheep	Factor X		



Reference	Designation Click to go to the product sheet	Application	Source	Antigen	PM (g/mol)	Extinction coefficier WEB
9-PAMFX-SIA	ightarrow Sheep pAb anti-mouse Factor X Immuno Adsorbed	IB, ELISA	Sheep	Factor X		
Anti-VWF						
9-PAHVWF-S	→ Sheep polyclonal antibody anti-human VWF	IB, ELISA	Sheep	Human VWF	150 000	•
Anti-Factor XI						
9-PAHFXI-S	→ Sheep polyclonal antibody anti-human Factor XI	IB, ELISA, RIEP	Sheep	Human Factor XI	150 000	<u> </u>
Anti-Factor XII						
9-PAHFXII-S	→ Sheep polyclonal antibody anti-human Factor XII	IB, ELISA, RIEP	Sheep	Human FXII	150 000	



Anti-Factor XIII

### Sheep polyclonal antibody anti-human Factor XIII









W		
	Desceptation	

Reference **Format** 9-PAHFXIII-S Vial 1 mg

Application: Immunoblotting, ELISA

Host: Sheep



### Informations

Haematologic Technologies' and Technoclone's lines of monoclonal and polyclonal antibodies perfectly complete our line of coagulation proteins. They are useful in a variety of applications such as ELISA, Western blot, immunohistochemistry and purification. Our polyclonal antibodies are generally supplied as purified IgG fractions although affinity purified and conjugated forms are available upon request. We also offer a line of rat anti-murine monoclonal and sheep anti-murine polyclonal antibodies against mouse coagulation proteins.

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics



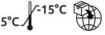


Anti-fibrinogen

### Sheep pAb anti-porcine fibrinogen









Reference	Presentation	Format
9-PAPFGN-S	Vial	1 mg

### Informations

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin.

In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

### Antigen: porcine fibrinogen

Application: Immunoblotting, ELISA

Host: Sheep



### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities

### Characteristics





The second heparin cofactor is a serine protease inhibitor. It inhibits thrombin, chymotrypsin and

other enzymes of the same group. Its rate of inhibition is amplified in the presence of heparin.

**Anti-heparin** 

Informations

### Sheep polyclonal antibody anti-Human heparin coFactor II











Reference	Presentation	Format
9-PAHCII-S	Vial	1 mg

#### Antigen: human heparin cofactor II

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified human heparin cofactor II



Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics







Anti-plasminogen activator inhibitor type-1 (PAI-1)

### Rabbit polyclonal antibody anti-human PAI-1



### Informations

Plasminogen activator inhibitor 1 (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an essential role in controlling any excessive activation of fibrinolysis. It is present in plasma associated with vitronectin, in free form or associated with t-PA and in the alpha granules of platelets. Fibrinolysis corresponds to the solubilization of the fibrinous thrombus by plasmin, an enzyme originating from plasminogen adsorbed to fibrin. Plasminogen is activated by t-PA and u-Pa. PAI-1 by inhibiting plasminogen activators, controls the degradation of fibrinous thrombus. A decrease in fibrinolytic activity promotes the occurrence of thrombosis, while excessive fibrinolysis leads to hemorrhages.



Reference	Presentation	Format
4-TC31024	Vial	1 mg
4-TC31025	Vial	5 mg

Antigen: PAI-1 from endothelial cells, platelets and human plasma as well as with PAI-1, recognizes free and complexed PAI-1 as well as latent PAI-1.

Application: Immunoblotting, ELISA

Host: Rabbit



Antibody lyophilized from a solution of 1 mg / mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg / mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20 ° C. Avoid repeated freezing and thawing cycles.







Anti-plasminogen

Associated products

Informations

involve t-PA and u-PA.

Sheep pAb anti-mouse plasminogen

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2

molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main

pathways for activating plasminogen to plasmin

### Sheep polyclonal antibody anti-Human plasminogen











Reference	Presentation	Format
9-PAHPG-S	Vial	1 mg

#### Antigen: human plasminogen

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified human plasminogen

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics



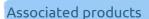




Anti-plasminogen

### Sheep pAb anti-mouse plasminogen





Sheep polyclonal antibody anti-Human plasminogen

### Informations

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.



Reference	Presentation	Format
9-PAMPG-S	Vial	1 mg

Antigen: mouse, rat, human plasminogen.

Application : Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified mouse plasminogen

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities.

### Characteristics







Horse polyclonal antibody anti-human protein C

Sheep polyclonal antibody anti-human protein C Sheep polyclonal antibody anti-mouse protein C

Anti-protein C

Associated products

## Chicken polyclonal antibody anti-human protein











Reference	Presentation	Format
9-PAHPC-C	Vial	1 mg

#### Antigen: Human and murine protein C

Application: Immunoblotting, ELISA

Host: Chicken

Immunogen: Purified Human Protein C



### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 μg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S, calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics





Chicken polyclonal antibody anti-human protein C

Sheep polyclonal antibody anti-human protein C Sheep polyclonal antibody anti-mouse protein C

### Anti-protein C

Associated products

### Horse polyclonal antibody anti-human protein C









Reference	Presentation	Format	
9-PAHPC-H	Vial	1 mg	

Antigen: Human protein C

Application: Immunoblotting, ELISA

Host: Horse

Immunogen: Purified Human Protein C



### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 µg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S, calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other coniugates.

Special formulations are available upon request. Discount according to quantities

### Characteristics

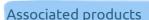




Anti-protein C

### Sheep polyclonal antibody anti-human protein C





Chicken polyclonal antibody anti-human protein C

Horse polyclonal antibody anti-human protein C

Sheep polyclonal antibody anti-mouse protein C

### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 µg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S, calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.



Reference	Presentation	Format
9-PAHPC-S	Vial	1 mg

Antigen: Human protein C

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified Human Protein C

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

### Characteristics



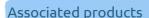




Anti-protein C

### Sheep polyclonal antibody anti-mouse protein C





Chicken polyclonal antibody anti-human protein C

Horse polyclonal antibody anti-human protein C

Sheep polyclonal antibody anti-human protein C

### Informations

Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis. PC is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form, at a concentration of approximately 4 µg/mL. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. PCa in the presence of its cofactor, protein S, calcium and phospholipids, is capable of to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of thrombin generation and limiting the extension of the thrombus.



Reference	Presentation	Format
9-PAMPC-S	Vial	1 mg

Antigen: Murine Protein C and Human Protein C (WB only) Formulation: 50 % Glycerol /  $H_2O$  (v/v)

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified Mouse Protein C

### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities.

### Characteristics







Anti-antithrombin

Associated products

Sheep polyclonal antibody anti-mouse

## Sheep polyclonal antibody anti-human antithrombin

**Format** 

1 mg











Reference	Presentation	
9-PAHAT-S	Vial	

Antigen: Human antithrombin Origin: Sheep polyclonal antibody Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

Application: Western Blot, ELISA

MW (Da): 150 000 Extinction Coef.: 14.0

Host: Sheep

Immunogen: Human purified antithrombin



#### Informations

antithrombin

Previously called antithrombin III (abbreviated AT III), human antithrombin is one of the major physiological inhibitors of coagulation. A natural serine protease inhibitor, antithrombin acts mainly on thrombin (IIa) and activated factor X (FXa), as well as on the activated forms of factors IX, XI and XII. This reaction is catalyzed by heparin. The normal level of antithrombin is between 80 and 120% in adults and it is about half in newborns. Antithrombin deficiency predisposes thrombosis.

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request.

Discount according to quantities

#### Characteristics





Anti-antithrombin

Associated products

Sheep polyclonal antibody anti-human

## Sheep polyclonal antibody anti-mouse antithrombin











Reference	Presentation	Format
9-PAMAT-S	Vial	1 mg

Antigen: Mouse antithrombin Sheep polyclonal antibody

Application: Immunoblotting, ELISA,

MW (Da): 150 000 Extinction Coef.: 14.0

Host: Sheep



antithrombin

Previously called antithrombin III (abbreviated AT III), human antithrombin is one of the major physiological inhibitors of coagulation. A natural serine protease inhibitor, antithrombin acts mainly on thrombin (IIa) and activated factor X (FXa), as well as on the activated forms of factors IX, XI and XII. This reaction is catalyzed by heparin. The normal level of antithrombin is between 80 and 120% in adults and it is about half in newborns. Antithrombin deficiency predisposes thrombosis.

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-protein S

## Sheep polyclonal antibody anti-human protein S











Reference	Presentation	Format
9-PAHPS-S	Vial	1 mg

Informations

Protein S is a vitamin K dependent protein. It is a physiological inhibitor of coagulation. It acts as a cofactor of activated protein C by promoting the inactivation of FVa and FVIIIa, prothrombin, of the prothrombinase complex, FX. A protein S deficiency can be either acquired (hepatocellular insufficiency, vitamin K deficiency, anti-protein S antibody, ...) or constitutional (heterozygous or homozygous deficiency) grouped into 2 types depending on whether the deficiency is quantitative (type I) or qualitative (type II).

Origin: Sheep polyclonal antibody Antigen: Human S protein

Application: Immunoblotting, ELISA, RIEP

Host: Sheep

Molecular weight: 150 000 Extinction coefficient: 1.4

Immunogen: Purified human protein S Buffer formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-Factor V

## Horse polyclonal antibody anti-human Factor V





Sheep polyclonal antibody anti-bovine Factor V

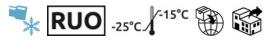
Sheep polyclonal antibody anti-human Factor V

#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.



Reference	Presentation	Format
9-PAHFV-H	Vial	1 mg

Antigen: Human Factor V

Application: Immunoblotting, ELISA

Host: Horse

Immunogen: Purified human factor V

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-Factor V

## Sheep polyclonal antibody anti-bovine Factor V



#### Associated products

Horse polyclonal antibody anti-human Factor V

Sheep polyclonal antibody anti-human Factor V

#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.



Reference	Presentation	Format
9-PABFV-S	Vial	1 mg

#### Antigen: Bovine Factor V

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified human factor V

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-Factor V

## Sheep polyclonal antibody anti-human Factor V



#### Associated products

Horse polyclonal antibody anti-human Factor V

Sheep polyclonal antibody anti-bovine Factor V

#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.



Reference	Presentation	Format
9-PAHFV-S	Vial	1 mg

#### Antigen: Human Factor V

Application: Immunoblotting, ELISA

MW (Da): 150 000 Extinction Coef.: 14.0

Host: Sheep

Immunogen: Purified human factor V

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-protein Z

## Sheep polyclonal antibody anti-human protein Z









Reference	Presentation	Format
9-PAHPZ-S	Vial	1 mg



Protein Z is a vitamin K dependent protein. It is a cofactor of ZPI (protein Z-related protease inhibitor) to inhibit FXa. This reaction is accelerated 1000 times in the presence of PZ.

#### Antigen: Human Z protein

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified human Z protein

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is

activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of

phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

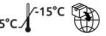
Anti-Factor Va

Informations

## Sheep polyclonal antibody anti-human Factor Va









Reference	Presentation	Format
9-PAHFVA-S	Vial	1 mg



Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified human factor V



#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-prothrombin

Associated products

## Burro polyclonal antibody anti-human prothrombin











Reference	Presentation	Format
9-PAHFII-BU	Vial	1 mg

Antigen: human prothrombin

Application: Immunoblotting, ELISA

Host: Burro

Immunogen: Human prothrombin purified



#### Informations

Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibrinogen into fibrin, amplify its own formation and activate the protein C, TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during anti-vitamin K treatments or vitamin K deficiency, CIVD, anti-FII autoantibodies.

Sheep polyclonal antibody anti-human prothrombin Sheep polyclonal antibody anti-mouse prothrombin

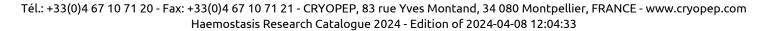
#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Burro polyclonal antibody anti-human prothrombin Sheep polyclonal antibody anti-mouse prothrombin

Factor II (FII) or prothrombin is a glycoprotein

synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated

by the prothrombinase thrombin complex which plays a central role in the coagulation process. It

will transform fibrinogen into fibrin, amplify its

own formation and activate the protein C, TAFI and

platelet systems. There are constitutional deficits

in FII which are very rare and acquired deficits

which can be observed during anti-vitamin K

treatments or vitamin K deficiency, CIVD, anti-FII

Anti-prothrombin

Associated products

Informations

autoantibodies.

## Sheep polyclonal antibody anti-human prothrombin













Reference	Presentation	Format
9-PAHFII-S	Vial	1 mg
9-PAHFII-SAP	Vial	100 μg



Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Human prothrombin purified

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-prothrombin

Associated products

## Sheep polyclonal antibody anti-mouse prothrombin











-25°C	

Reference	Presentation	Format
9-PAMFII-S	Vial	1 mg

Antigen: Mouse prothrombin, rat, human prothrombin.

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified mouse prothrombin

50 % Glycerol / H2O (v/v)



Burro polyclonal antibody anti-human prothrombin

Sheep polyclonal antibody anti-human prothrombin

#### Informations

Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibrinogen into fibrin, amplify its own formation and activate the protein C, TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during anti-vitamin K treatments or vitamin K deficiency, CIVD, anti-FII autoantibodies.

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities.

#### Characteristics



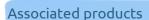




**Anti-tissue Factor** 

## Goat polyclonal antibody anti-human tissue Factor (IgG)





Sheep polyclonal antibody anti-human tissue Factor

#### Informations

Tissue Factor or FT is a cell surface glycoprotein. This factor initiates the extrinsic pathway of the coagulation cascade and is a high affinity receptor for FVII. The FVIIa / FT complex catalyzes the conversion of FX to FXa.







Reference	Presentation	Format
11-4501	Vial	1 mg

#### Antigen: human FT, rat, rabbit

Application: Inhibitor in coagulation tests, partially neutralizes thromboplastin,

Immunoblotting, Source: Goat

Immunogen: human FT

#### Advantages

The lyophilized presentation allows greater stability until the expiration date.

#### Characteristics

Antibody lyophilized from a solution of 1 mg/mL in a solution of 10 mM sodium phosphate 140 mM sodium chloride, pH 7.4 with 100 mM mannitol.







Anti-tissue Factor

Associated products

## Sheep polyclonal antibody anti-human tissue **Factor**









Reference	Presentation	Format
9-PAHTF-S	Vial	1 mg

#### Antigen: human FT

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified recombinant tissue factor

#### Informations

(IgG)

Tissue Factor or FT is a cell surface glycoprotein. This factor initiates the extrinsic pathway of the coagulation cascade and is a high affinity receptor for FVII. The FVIIa / FT complex catalyzes the conversion of FX to FXa.

Goat polyclonal antibody anti-human tissue Factor

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





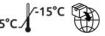


Anti-Factor VII

## Sheep polyclonal antibody anti-human FVII









Reference	Presentation	Format	
9-PAHFVII-S	Vial	1 mg	

#### Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

#### Antigen: Human Factor VII and VIIa

Application: Immunoblotting, ELISA

MW(Da): 150 000 Host: Sheep

Immunogen: Purified human Factor V

#### Characteristics

The vast majority of antibodies is pure (without additives) with > 95 % purity SDS-PAGE. Stock antidobies are supplied in 50 % glycerol/water (v/v) for ease of storage and use. Both small, laboratory scale and bulk, production scale quantities are available. Expiration date of one year from delivery.



#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities





**Anti-TAFI** 

## Sheep polyclonal antibody anti-human TAFI











Reference	Presentation	Format
9-PATAFI-S	Vial	1 mg

Antigen: Human TAFI

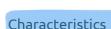
Origine: Sheep polyclonal antibody Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

MW(Da): 150 000 Extinction coef.: 14.0

Application: Immunoblotting, ELISA, RIEP

Host: Sheep

Immunogen: purified human TAFI



The vast majority of antibodies is pure (without additives) with > 95 % purity SDS-PAGE. Stock antidobies are supplied in 50 % glycerol/water (v/v) for ease of storage and use. Both small, laboratory scale and bulk, production scale quantities are available. Expiration date of one year from delivery.



#### Informations

TAFI is an enzyme that stabilizes the clot by protecting the fibrin from the clot from lysis. TAFI is activated by thrombin and its activation is amplified in the presence of thrombomodulin. Activated TAFI removes the C-terminal lysine and arginine residues of fibrin which are necessary for the binding of t-PA, plasmin and plasminogen to fibrin.

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities



Anti-Factor VIIa

Informations

## Rabbit polyclonal antibody anti-human FVIIa









Reference	Presentation	Format
9-PAHFVIIA-RAB	Vial	1 mg



Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

#### Antigen: Human Factor VIIa

Application: Immunoblotting, ELISA

Source: Rabbit

Immunogen: Recombinant human FVIIa

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







TFPI (Tissue Factor Signaling Pathway Inhibitor) is an anticoagulant protein produced by the

endothelial cell and found on its surface. Its role is to inhibit the early phases of coagulation by

blocking the FT-FVIIa complex as well as the FXa.

**Anti-TFPI** 

Informations

## Sheep polyclonal antibody anti-Human TFPI









Reference	Presentation	Format
9-PAHTFPI-S	Vial	1 mg



Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: domain 1 and 2 of purified recombinant TFPI truncated from the C-terminal part



#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-tissue type plasminogen activator (t-PA)

## Rabbit polyclonal antibody anti- human t-PA



## Informations

Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line blood vessels. Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme. Due to its lysis activity, t-PA is used in clinical medicine to treat cerebral embolism and thrombosis. Its use is contraindicated in cases of cerebral hemorrhage or head trauma.

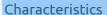


Reference	Presentation	Format
4-TC31004	Vial	1 mg
4-TC31005	Vial	5 mg

Antigen: free t-PA and t-PA inhibitor complexes, no reaction with other plasma proteins.

Application: Immunoblotting, ELISA

Host: Rabbit



Antibodies lyophilized from a solution of 1 mg / mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg / mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20 ° C. Avoid repeated freezing and thawing cycles.







**Anti-Factor VIII** 

## Sheep polyclonal antibody anti-human FVIII









Reference	Presentation	Format
9-PAHFVIII-S	Vial	1 mg



Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation. It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.

Antigen: Human Factor VIII

Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

Application: Immunoblotting, ELISA, RIEP

Host: Sheep

Immunogen: Human FVIII: C



Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-thrombin

## Sheep polyclonal antibody anti-human thrombin

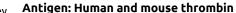








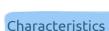
Reference	Presentation	Format
9-PAHT-S	Vial	1 mg



Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: purified human thrombin



The vast majority of antibodies is pure (without additives) with > 95 % purity SDS-PAGE. Stock antidobies are supplied in 50 % glycerol/water (v/v) for ease of storage and use. Both small, laboratory scale and bulk, production scale quantities are available. Expiration date of one year from delivery.



#### Informations

An active form of prothrombin, thrombin is the key enzyme in the coagulation cascade that converts fibrinogen into fibrin to form a clot. Thrombin is a glycoprotein formed of 2 polypeptide chains joined by a disulfide bridge. It acts as a protease by hydrolyzing several coagulation factors and acts as a messenger by attaching itself to cellular receptors linked to G proteins, called PAR.

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities



Anti-urokinase type plasminogen activator (u-PA)

## Rabbit polyclonal antibody anti-u-PA



#### Informations

Belonging to the family of serine proteases. U-PA activates plasminogen to convert it into plasmin, an enzyme that breaks down fibrin. It intervenes in the phases of dissolution of the clot during fibrinolysis. It has also been shown to increase the amount of u-PA in some tumors.



Reference	Presentation	Format
4-TC31014	Vial	1 mg
4-TC31015	Vial	5 mg

Antigen: high and low molecular weight urokinase, scu-uPA, u-PA bound inhibitor complex.

Application : RIA, ELISA, purification

Host: Rabbit

Immunogen: high molecular weight urokinase



Antibodies lyophilized from a solution of 1 mg / mL in PBS buffer at pH 7.4 containing 0.02% sodium azide and 20 mg / mL mannitol. After reconstitution the antibodies should be aliquoted and stored at -20 ° C. Avoid repeated cycles of freezing and thawing.







Anti-Factor IX

## Chicken polyclonal antibody anti-human Factor IX









Sheep polyclonal antibody anti-human Factor IX

Sheep polyclonal antibody Anti-rat Factor IX

#### Informations

Factor IX is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a factor dependent on vitamin K and its plasma half-life is 20 to 24 hours. It can be activated to FIXa by FXIa or FVIIa in the presence of phospholipids and calcium.



#### Antigen: Human Factor IX

Application: Immunoblotting

Host: Chicken

Immunogen: Purified human FIX

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







**Anti-Factor IX** 

## Sheep polyclonal antibody anti-human Factor IX



#### Associated products

Chicken polyclonal antibody anti-human Factor IX

Sheep polyclonal antibody anti-human Factor XI

Sheep polyclonal antibody Anti-rat Factor IX



Factor IX is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a factor dependent on vitamin K and its plasma half-life is 20 to 24 hours. It can be activated to FIXa by FXIa or FVIIa in the presence of phospholipids and calcium.



Reference	Presentation	Format
9-PAHFIX-S	Vial	1 mg
9-PAHFIX-S-5	Flacon	5 mg
9-PAHFIX-SAP	Vial	100 µg

Antigen: Human Factor IX

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified human FIX

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics



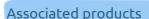




Anti-Factor IX

## Sheep polyclonal antibody Anti-rat Factor IX





Chicken polyclonal antibody anti-human Factor IX

Sheep polyclonal antibody anti-human Factor IX

Sheep polyclonal antibody anti-human Factor XI



Factor IX is a glycoprotein synthesized by the liver, zymogen of a serine protease.

It is a factor dependent on vitamin K and its plasma half-life is 20 to 24 hours.

It can be activated to FIXa by FXIa or FVIIa in the presence of phospholipids and calcium.



Reference	Presentation	Format
9-PARFIX-S	Vial	1 mg

Antigen: rat and mouse FIX, human and bovine FIX

Application: Immunoblotting, ELISA (Rat and mouse FIX only)

Host: Sheep

Immunogen: Purified rat FIX

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates.

Special formulations are available upon request. Discount according to quantities

#### Characteristics







**Anti-vitronectin** 

# Rabbit polyclonal antibody anti-human vitronectin







#### Associated products

Human vitronectin

Purified vitronectin

## Informations

Vitronectin (Vn) is an adhesive glycoprotein, synthesized by the liver, released in plasma and present in the extracellular matrix. Vn binds PAI-1. This complex fully activates PAI-1, unlike PAI-1 in solution, where it does not appear to be stable and inactive. Vn therefore seems to regulate the enzymatic specificity of PAI-1, by stabilizing it. Decreased Vn levels occur in DICs and liver disease (cirrhosis). Vn deposition is associated with atherosclerotic lesions.

# Reference Presentation Format 4-TC31054 Vial 1 mg

Antigen: vitronectin and complexes with PAI-1, no reaction with other plasma proteins.

Application : ELISA Host : Rabbit



#### Characteristics

Antibody lyophilized from a solution of 0.5 mg/mL in 10 mM bicarbonate buffer pH 9.6. After reconstitution the antibodies should be aliquoted and stored at -20 ° C. Avoid repeated freezing and thawing cycles.





Anti-Factor X

## Sheep polyclonal antibody anti-human Factor X





Sheep polyclonal antibody anti-mouse Factor X

Sheep pAb anti-mouse Factor X Immuno Adsorbed

#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.



Reference	Presentation	Format
9-PAHFX-S	Vial	1 mg

#### Antigen: human FX (heavy and light chain)

Application: Immunoblotting, ELISA, Radioimmunoelectrophoresis,

MW (Da): 150 000

Extinction coefficient: 14.0

Host: Sheep

Immunogen: Purified human FX

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-Factor X

## Sheep polyclonal antibody anti-mouse Factor X



### Associated products

Sheep polyclonal antibody anti-human Factor X

Sheep pAb anti-mouse Factor X Immuno Adsorbed

#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.



Reference	Presentation	Format
9-PAMFX-S	Vial	1 mg

Antigen: Mouse, rat, human FX

Application : Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified Mouse FX

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Anti-Factor X

Associated products

## Sheep pAb anti-mouse Factor X Immuno **Adsorbed**











Reference	Presentation	Format
9-PAMFX-SIA	Vial	1 mg

Antigen: Mouse and rat FX - Immuno Adsorbed

Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Purified Mouse FX

#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.

Sheep polyclonal antibody anti-human Factor X

Sheep polyclonal antibody anti-mouse Factor X

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





VWF is composed of 15 to 20 multimers ranging in molecular weight from 500 kDa to 20,000 kDa and

high molecular weight multimers are essential for biological activity. Its role is on the one hand to

transport FVIII in the circulation to protect it from its degradation and on the other hand it participates in adhesion and platelet aggregation.

**Anti-VWF** 

Informations

## Sheep polyclonal antibody anti-human VWF









Reference	Presentation	Format
9-PAHVWF-S	Vial	1 mg



Application: Immunoblotting, ELISA

Host: Sheep

Immunogen: Human purified VWF



#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics





Anti-Factor XI

## Sheep polyclonal antibody anti-human Factor XI



#### Associated products

Chicken polyclonal antibody anti-human Factor IX

Sheep polyclonal antibody anti-human Factor IX

Sheep polyclonal antibody Anti-rat Factor IX

#### Informations

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation. It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.



Reference	Presentation	Format
9-PAHFXI-S	Vial	1 mg
9-PAHFXI-SAP	Vial	100 µg

Antigen : human Factor XI

Application: Immunoblotting, ELISA, Radioimmunoelectrophoresis,

Host: Sheep

Immunogen: Purified human FXI

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Factor XII (FXII) is a glycoprotein synthesized by the liver. FXII participates in the contact phase which

initiates the intrinsic pathway of coagulation. Activated on contact with a negatively charged

surface, it becomes capable of activating

prekallikrein and kallikrein (amplified by KHPM)

then FXI to FXIa in the presence of KHPM. The FXIa thus formed activates the FXII in FXIIa, amplifying

**Anti-Factor XII** 

Informations

the reaction.

## Sheep polyclonal antibody anti-human Factor XII









Reference	Presentation	Format
9-PAHFXII-S	Vial	1 mg

#### Antigen: Human FXII

Host: Sheep

Immunogen: Purified human FXII

Application: Immunoblotting, ELISA, Radioimmunoelectrophoresis, MW (Da): 150 000

#### Advantages

Custom needs by supplying you antibodies conjugated with biotin, HRP, FITC or other conjugates. Special formulations are available upon request. Discount according to quantities

#### Characteristics







Reference	Designation Click to go to the product sheet	PM (g/mol)	Extinction coefficient	WEB
Von Willebrand Fac	ctor			
9-HCVWF-0190	→ Human Von Willebrand Factor	260 000 to 1-20 x 10 <sup>6</sup>		•
9-HCVWF-0191	→ Human Von Willebrand Factor (VIII free)	260 000 à 1-20 x 10 <sup>6</sup>		•
Fibronectin				
9-HCFN-0170	→ Human fibronectin	550 000	14.0	•
Protein S				
9-HCPS-0090	→ Human protein S	69 000	9.5	•
Thrombomodulin				
9-RABTM-4202	→ Rabbit lung thrombomodulin	74 000	8.8	₩
6-THROMBOM-H-	10 → Thrombomodulin, human, recombinant	51 000	0.7	•
11-237	→ Thrombomodulin, rabbit	74 000		•
Factor V				
9-HCV-0100-C	→ Human Factor V IgG free	330 000	9,6	₩
9-BCV-1100	→ Bovine Factor V	333 000	9.6	•
9-HCV-0100	→ Human Factor V	330 000	9.6	•
Factor Va				
9-BCVA-1110	→ Bovine Factor Va	168 000	17.4	•
9-HCVA-0110	→ Human Factor Va	168 000	17.4	•



**Von Willebrand Factor** 

## **Human Von Willebrand Factor**











### Associated products

Human Von Willebrand Factor (VIII free)

#### Informations

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter. These proteins are often enzymes, and coFactors can be thought of as "helper molecules" aiding in biochemical transformations. VWF is composed of 15 to 20 multimers ranging in molecular weight from 500 kDa to 20,000 kDa and high molecular weight multimers are essential for biological activity. Its role is on the one hand to transport FVIII in the circulation to protect it from its degradation and on the other hand it participates in adhesion and platelet aggregation.

Reference	Presentation	Format
9-HCVWF-0190	Vial	100 µg
9-HCVWF-0190-1	Vial	1 mg

Origin: Human Blood / Plasma

Buffer formulation: 25 mM Sodium citrate, 100 mM NaCl, 100 mM Glycine, pH 6.8

Molecular weight (Da): 260 000 (monomer) to 1-20 x 106 (multimers) Structure: multimeric protein composed of identical subunits

#### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Never allow protein solutions to remain at room temperature for excessive periods of time.







**Von Willebrand Factor** 

## Human Von Willebrand Factor (VIII free)











Reference	Presentation	Format
9-HCVWF-0191	Vial	100 µg
9-HCVWF-0191-1	Vial	1 mg



Buffer formulation: 25 mM sodium citrate, 100 mM NaCl, 100 mM glycine, pH 6.8

Molecular weight (Da): 260 000 (monomer), 1-20 x 106 (multimers) Structure: multimeric protein composed of identical subunits

Specific activity: < 1 % FVIII activity



#### Informations

Associated products

Human Von Willebrand Factor

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter. These proteins are often enzymes, and coFactors can be thought of as "helper molecules" aiding in biochemical transformations. VWF is composed of 15 to 20 multimers ranging in molecular weight from 500 kDa to 20,000 kDa and high molecular weight multimers are essential for biological activity. Its role is on the one hand to transport FVIII in the circulation to protect it from its degradation and on the other hand it participates in adhesion and platelet aggregation.

#### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Never allow protein solutions to remain at room temperature for excessive periods of time.





**Fibronectin** 

Informations

high fibronectin levels.

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological

activity of the latter. These proteins are often enzymes, and cofactors can be thought of as

"helper molecules" aiding in biochemical

transformations. Fibronectin is a glycoprotein that

exists in soluble form in plasma or in fibrillar form

in the extracellular matrix. This protein modulates the interactions between cells and the extracellular matrix. In the absence of fibrinogen, fibronectin controls cogulation. Fibronectin can bind to fibrin

to strengthen clots and make them more stable. Fibronectin has shown roles in platelet function,

fibrinolysis, chemotaxis, phagocytosis, and

opsonization. In certain pathologies such as

trauma, sepsis, liver disorders, the fibronectin level

may be low. Conversely, some cancers can have

### Human fibronectin













Reference	Presentation	Format
9-HCFN-0170	Vial	2 mg
9-HCFN-0170-1	Vial	1 mg

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

MW(Da): 550 000 Extinction coef.: 14

Point isoéléctrique: approx. 5.0 Structure: hétérodimère



#### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All cofactors are accompanied by certificates of analysis which describe the appropriate storage conditions. Never allow solutions to remain at room temperature for excessive periods of time.





**Protein S** 

## Human protein S



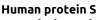








Reference	Presentation	Format
9-HCPS-0090	Vial	100 µg
9-HCPS-0090-1	Vial	1 mg



Formulation: Glycérol 50% / H<sub>2</sub>O (v/v)

MW(Da): 69 000

Concentration: 6.1 mg/mL Extinction coef.: 9.5 Isoelectric point: 5.0-5.5

Structure: single chain, Gla domain in NH2-terminal and 4 EGF domains



#### Informations

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter. These proteins are often enzymes, and coFactors can be thought of as "helper molecules" aiding in biochemical transformations. Protein S is a 69 kDa-dependent vitamin K eglycoprotein synthesized by hepatocytes, endothelial cells, megakaryodytes and osteoblasts. It is a physiological inhibitor of coagulation.

Protein S acts as a cofactor of activated protein C by promoting the inactivation by proteaolysis of factors Va and VIIIa.

Protein S inhibits the activation of prothrombin and the formation of the prothrombinase complex on phospholipids as well as the activation of FX.

#### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Many of our preparations are formulated in 50 % (vol/vol) glycerol/H₂O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest stability while still allowing access to the stock sample without repeated thawing and freezing steps. All products which are formulated with glycerol/H₂O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipe. Never allow protein solutions to remain at room temperature for excessive periods of time.



**Thrombomodulin** 

Associated products

Thrombomodulin, rabbit

Thrombomodulin, human, recombinant

## Rabbit lung thrombomodulin











Reference	Presentation	Format
9-RABTM-4202	Vial	50 µg
9-RABTM-4202-1	Vial	1 mg

Formulation: 20 mM Tris; 150 mM NaCl, 0.05% PDOC (polidocanol), pH 7.4

500 to 1 800 units/mg MW(Da): 74 000 Extinction coef.: 8.8 Concentration: 1.6 mg/mL Isoelectric point: 2.5

Structure: single chain, hydrophobic domain in NH2-terminal, 6 EGF domains, 1 domain rich in O-glycosylation, 1 transmembrane domain and a cytoplasmic domain in COOH-terminal.

### Informations

A coFactor is a chemical compound that is required for the protein's biological activity. These proteins are commonly enzymes, and cofactors can be considered «helper molecules» that assist in biochemical transformations. Thrombomodulin (TM) is the cell surface receptor for thrombin. When TM is bound to thrombin, the procoagulant activity of thrombin is blocked. This complex activates protein C on the surface of the endothelial cell. In the presence of its cofactor, protein S, it acts as a powerful anticoagulant by inactivating the active forms of FV, FVIII, thus interrupting the formation of new thrombin molecules. Binding of TM to chondroitin sulfate, thrombin linked to TM can no longer activate its substrates (fibrinogen, FV) nor induce platelet aggregation. Platelets, monocytes and neutrophils contain small amounts of TM compared to cultured endothelial cells. Detailed analysis of thrombomodulin circulating in human plasma revealed smaller fragments or degraded forms which are considered to have only limited function. Plasma levels of TM were used as a marker for endothelial cell damage in vivo.

### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

### Characteristics

All cofactors are accompanied by certificates of analysis which describe the appropriate storage conditions. Never allow solutions to remain at room temperature for excessive periods of time.





### **Thrombomodulin**

Associated products

Rabbit lung thrombomodulin Thrombomodulin, rabbit

## Thrombomodulin, human, recombinant













Reference	Presentation	Format
6-THROMBOM-H-10	Vial	10 µg
6-THROMBOM-H-100	Vial	100 µg

Formulation: lyophilized protein from a solution of 100 µg / mL in a 50 mM Tris buffer, 100 mM NaCl, pH 7.4 with 100 mM of Mannitol.

MW(Da): 51 000 Extinction coef.: 0.7

### Informations

Thrombomodulin (TM, CD141, THBD) is an endothelial cell-expressed. transmembrane glycoprotein that can form a complex with the thrombin. The thrombomodulin/thrombin complex converts protein C to its activated form, protein Ca, which in turn proteolytically cleaves and deactivates factor Va and factor VIIIa, two essential components of the coagulation mechanism. This inactivation reduces the generation of additional thrombin, and thereby effectively prevents continued coagulation. Reduced levels of thrombomodulin can correlate with the pathogenesis of certain cardiovascular diseases. such as atherosclerosis and thrombosis. However, the serum levels of the truncated circulating form of thrombomodulin are typically elevated during inflammation and in the presence of various inflammatory-related thrombomodulin protein contains 575 amino acids, including an 18 a.a. signal sequence, a 497 a.a. extracellular domain, a 24 a.a. transmembrane sequence, and a 36 a.a. cytoplasmic region.--Recombinant Human Thrombomodulin is a 51.4 kDa, 491-amino-acid length glycoprotein containing the extracellular domain of thrombomodulin.

### Advantages

The lyophilized presentation allows greater stability until the expiration date.

### Characteristics

Thrombomodulin truncated at the C-terminus. missing the putative transmembrane and cytoplasmic domains, approximately 38 amino acids. To be taken up with 100µL of distilled water to generate a solution of 100µg/mL. After reconstitution, aliquot and store the protein at -20°C to -80°C.





**Thrombomodulin** 

## Thrombomodulin, rabbit







Reference	Presentation	Format
11-237	Vial	50 µg

Formulation: 20mM Tris, 150mM NaCl, pH 7.4, 0.05% polidocanol.

MW(Da): 74 000 Purified Rabbit Lung



Rabbit lung thrombomodulin

Thrombomodulin, human, recombinant

### Informations

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter. These proteins are often enzymes, and the cofactors can be thought of as "helper molecules" aiding in biochemical transformations. Thrombomodulin (TM) is the cell surface receptor for thrombin. When TM is bound to thrombin, the procoagulant activity of thrombin is blocked. This complex activates protein C on the surface of the endothelial cell. In the presence of its cofactor, protein S, it acts as a powerful anticoagulant by inactivating the active forms of FV, FVIII, thus interrupting the formation of new thrombin molecules. Binding of TM to chondroitin sulfate, thrombin linked to TM can no longer activate its substrates (fibrinogen, FV) nor induce platelet aggregation. Platelets, monocytes and neutrophils contain small amounts of TM compared to cultured endothelial cells. Detailed analysis of thrombomodulin circulating in human plasma revealed smaller fragments or degraded forms which are considered to have only limited function. Plasma levels of TM were used as a marker for endothelial cell damage in vivo.

#### Characteristics

Batch-dependent activity. 20mM Tris buffer, 150mM NaCl, pH 7.4 with 0.05% polidocanol (detergent).





Factor V

## Human Factor V IgG free











Reference	Presentation	Format
9-HCV-0100-C	Vial	1 x 100 µg

Informations

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter. These proteins are often enzymes, and cofactors can be thought of as "helper molecules" aiding in biochemical transformations. Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

Origin: Blood/Human Plasma

Formulation: Glycerol 50% / H<sub>2</sub>O (v/v)

IaG free

26 units/mg MW (Da): 330 000

Extinction coefficient: 9.6

Determination of activity: factor V clotting assay

### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Many of our preparations are formulated in 50 % (vol/vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C.

This preferred method of storage yields the greatest stability while still allowing access to the stock sample without repeated thawing and freezing steps.

All products which are formulated with glycerol/H<sub>2</sub>O should be stored at -20° C.

Temperatures lower than -30° C should be avoided in order to prevent a phase transition.

When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min).

The sample will become less viscous and thus easier to pipe. Never allow protein solutions to remain at room temperature for excessive periods of time.



Factor V

### **Bovine Factor V**



Lot # MM072









Reference	Presentation	Format
9-BCV-1100	Vial	100 µg
9-BCV-1100-1	Vial	1 mg



Informations

Human Factor V

Associated products

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter. These proteins are often enzymes, and cofactors can be thought of as "helper molecules" aiding in biochemical transformations. Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

Formulation: 50% Glycerol / H<sub>2</sub>O (v/v)

73 to 147 units/mg MW(Da): 333 000 Extinction coef.: 9.6

Determination of activity: coagulation test

### Advantages

The lyophilized presentation allows stability until the expiration date.

### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Many of our preparations are formulated in 50 % (vol/vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest stability while still allowing access to the stock sample without repeated thawing and freezing steps. All products which are formulated with glycerol/H₂O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipe. Never allow protein solutions to remain at room temperature for excessive periods of time.



Factor V

### Human Factor V











#### Reference Presentation **Format** Associated products Vial 9-HCV-0100 50 µg Bovine Factor V Vial 9-HCV-0100-1 1 mg



Informations

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter.

These proteins are often enzymes, and cofactors can be thought of as "helper molecules" aiding in biochemical transformations. Factor V (FV) is a protein mainly synthesized by the liver.

It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

Origin: Human Blood / Plasma

Formulation: 50% Glycerol / H2O (v/v)

29 to 84 units/mg MW(Da): 330 000 Extinction coef.: 9.6

Determination of activity: Factor V clotting assay

Structure: 1 subunit of 2196 amino acids

### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Many of our preparations are formulated in 50 % (vol/vol) glycerol/H₂O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest stability while still allowing access to the stock sample without repeated thawing and freezing steps. All products which are formulated with glycerol/H<sub>2</sub>O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipe. Never allow protein solutions to remain at room temperature for excessive periods of time.



Factor Va

### **Bovine Factor Va**











Reference	Presentation	Format
9-BCVA-1110	Vial	100 µg
9-BCVA-1110-1	Vial	1 mg

Lot # MM072

Informations

Human Factor Va

Associated products

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter.

These proteins are often enzymes, and cofactors can be thought of as "helper molecules" aiding in biochemical transformations.

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin. The FVa is neutralized by the PCa.

Formulation: 50/50 (v/v) glycérol/H2O, 5 mM CaCl2

1 500 to 4 600 units/mg MW(Da): 168 000 Extinction coef.: 17.4

Determination of activity: coagulation test

Structure: 2 sub-units; heavy chain (94kDa) and light chain (74 kda)

### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Many of our preparations are formulated in 50 % (vol/vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C.

This preferred method of storage yields the greatest stability while still allowing access to the stock sample without repeated thawing and freezing steps. All products which are formulated with glycerol/H<sub>2</sub>O should be stored at -20° C.

Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipe. Never allow protein solutions to remain at room temperature for excessive periods of time.



Factor Va

### Human Factor Va











### Associated products

Bovine Factor Va

Reference	Presentation	Format
9-HCVA-0110	Vial	50 µg
9-HCVA-0110-1	Vial	1 mg

Origin: Human Blood / Plasma

Formulation: 50 % Glycerol / 5 mM CaCl<sub>2</sub> (v/v)

Structure: 2 sub-units: heavy chain (94kDa) and light chain (74 kda)

1 900 to 4 600 units/mg MW(Da): 168 000

Coefficient d'extinction: 17.4

Determination of activity: coagulation test



### Informations

A cofactor is a chemical substance, which binds to a protein, and which is necessary for the biological activity of the latter.

These proteins are often enzymes, and cofactors can be thought of as "helper molecules" aiding in biochemical transformations.

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.

#### Advantages

The vast majority of coFactors is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. Many of our preparations are formulated in 50 % (vol/vol) glycerol/H₂O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest stability while still allowing access to the stock sample without repeated thawing and freezing steps. All products which are formulated with glycerol/H<sub>2</sub>O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipe. Never allow protein solutions to remain at room temperature for excessive periods of time.



## ASSAYS KITS

Reference	Designation Click to go to the product sheet	WEB
ELISA		
26-ADG823	→ IMUBIND® PAI-2 ELISA	•
26-ADG803	→ IMUBIND® Vitronectin ELISA	•
26-ADG876	→ IMUBIND® FSAP ELISA	•
33-13.02.095.0096	→ INTER-ARRAY VWF:PP ELISA Kit	•
11-827	→ IMUBIND® Factor VIIa ELISA	•
11-845	→ IMUBIND® Tissue Factor ELISA	•
11-821	→ IMUBIND® Tissue PAI-1 ELISA	•
26-ADG855	→ OLIGOBIND® APC Activity Assay	•
26-ADG844	→ OLIGOBIND® Thrombin Activity Assay	•
4-TC12030	→ TECHNOZYM® FIBRONECTIN ELISA Kit	•
4-TC12040	→ TECHNOZYM® Glu-Plasminogen ELISA Kit	•
4-TC12062	→ TECHNOZYM® PAP Calibrator Set	•
4-TC12060	→ TECHNOZYM® PAP Complex ELISA Kit	•
4-TC12064	→ TECHNOZYM® PAP Control Set	•
4-TC16100	→ TECHNOZYM® PCI Actibind® ELISA Kit	•
4-TC16000	→ TECHNOZYM® t-PA Combi Actibind® ELISA Kit	•
4-TC12080	→ TECHNOZYM® t-PA-PAI-1 Complex ELISA	•
4-TC16010	→ TECHNOZYM® u-PA Combi Actibind® ELISA Kit	•
4-TC12010	→ TECHNOZYM® u-PA ELISA Kit	
4-TC12120	→ TECHNOZYM® VITRONECTIN ELISA Kit	



## ASSAYS KITS



**ELISA** 

Dosage ELISA

### **IMUBIND® PAI-2 ELISA**













### Informations

Plasminogen activator inhibitor 2 (PAI-2) or SERPINB2 belongs to the serine protease inhibitor superfamily. It has 2 forms; a secreted form of 60kDa and an intracellular form of 47kDa. It effectively inhibits double-stranded t-PA and u-PA but weakly inhibits single-stranded t-PA. PAI-2 is present in the plasma of pregnant women, gingival fluid, monocytes and macrophages, and keratinocytes.



The IMUBIND® PAI-2 ELISA is an enzyme-linked immunoassay for the determination of human PAI-2 in human biological fluids. This assay is for research use only. It is not intended for diagnostic or therapeutic procedures.

This assay detects the low molecular weight (48 kD) and the high molecular weight glycosylated (60 kD) form of PAI-2.

### Advantages

Free PAI-2 and PAI-2/uPA and PAI-2/tPA complexes are recognized. The assay is insensitive to PAI-1.





**ELISA Assay** 

### **ELISA**

### IMUBIND® Vitronectin ELISA

Number of tests

96 tests













Reference	Presentation

26-ADG803

The IMUBIND® Vitronectin ELISA is an enzyme-linked immunosorbent assay for the quantitative determination of total Vitronectin in human plasma or serum or in any fluid where Vitronectin might be present.

Kit

### Informations

Vitronectin (Vn) is an adhesive glycoprotein, synthesized by the liver, released in plasma and present in the extracellular matrix. Vn binds PAI-1. This complex fully activates PAI-1, unlike PAI-1 in solution, where it does not appear to be stable and inactive.

Vn therefore seems to regulate the enzymatic specificity of PAI-1, by stabilizing it. Decreased Vn levels occur in DICs and liver disease (cirrhosis). Vn deposition is associated with atherosclerotic lesions.

### Components

- 1 plate ELISA (12 x 8 wells)
- 1 vial x conjugated antibody 140µl, 100x concentrate
- 1 vial x substrate (11 mL)
- 1 bottle x stop solution (6 mL)
- 2 vial x dilution buffer (50 mL)
- 1 vial x wash buffer concentrate (50 mL)
- 1 vial x lyophilized calibrator plasma





**ELISA** 

**ELISA Assay** 

### **IMUBIND® FSAP ELISA**











Reference	Presentation	Number of tests
26-ADG876	Coffret	96

The IMUBIND ® FSAP ELISA kit is intended for the measurement of factor seven activating protease in human plasma. The assay is intended for research use only.

### Informations

FSAP (Factor VII activating protease) is a multifunctional plasma serine protease mainly synthesized by hepatocytes. It has been identified as a potent activator of single-chain plasminogen activators such as pro-urokinase. In vitro, FVII can be activated by FSAP in a tissue factor-independent pathway.

This protease plays a role in hemostasis, inflammation, vascular permeability and cellular damage.

### Components

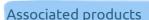
- 1 ELISA plate (12 x 8 wells)
- 1 vial of conjugated antibody 120 μl, concentrated x100
- 1 vial of TMB chromogenic substrate (12 mL)
- 1 bottle of stop solution (6 mL)
- 1 vial of dilution buffer (50 mL)
- 1 bottle of washing buffer (50 mL)
- 1 vial of 500 µl of human plasma calibrator





### INTER-ARRAY VWF:PP ELISA Kit





INTER-ARRAY VWF:PP Sample Diluent

INTER-ARRAY VWF:PP Wash Buffer Concentrate



Von Willebrand Factor (VWF) is a large multimeric plasma protein with important functions in primary hemostasis. VWF is synthesized in endothelial cells and megakaryocytes as pre-pro-VWF. After various posttranslational modifications and cleavage of the signal peptide, the propeptide (VWF:PP) is also cleaved off by the protease furin in the trans-Golgi-system.

A non-covalent complex of VWF and VWF:PP remains stored in Weibel-Palade bodies (endothelium) or in a-granules (megakaryocytes). Activation or stimulation of these cells will release the complex. VWF and VWF:PP dissoclate and metabolize with different half lives. While VWF has a half-life of approx. 12 hours, VWF:PP is metabolized with a half-life of only approx. 2 hours.

# RUO 2°C 8°C .6HOIS.

Reference	Presentation	Number of tests
33-13.02.095.0096	Kit	12 x 8

The VWF:PP ELISA kit is intended for the quantitative enzyme immunoassay of von Willebrand factor propeptide (VWFpp) in plasma.

This assay allows, in association with VWF:AG, to characterize the type of VWF deficiency. The VWF:PP ELISA provides a result with few steps in 90 to 150 min with high precision.

The components in the kit for 96 tests have excellent stability. The VWF:PP is designed for manual processing and automated ELISA systems.

#### Components

- 12 strips with 8 wells coated with an anti-VWF:PP monoclonal antibody
- 1 x 6 mL of anti-VWF:PP monoclonal antibody coupled to an enzyme,
- 1 x 12 mL of substrate solution.
- 1 x 15 mL of stop solution,
- 2 x 25 mL of sample diluent.
- 1 x 100 mL of concentrated wash buffer.
- 1 vial of freeze-dried calibration plasma
- 1 vial of freeze-dried control plasma
- 1 plastic frame
- 1 sheet with calibrator and control values

#### Advantages

The calibration is performed against the International Standard.

Control and calibrator are included in the kit.



#### Characteristics

#### <spar

style="font-family:Arial,Helvetica,sans-serif">The molar ratio of VWF:PP to VWF can be used as an indicator for the degradation of VW F. An increased ratio of VWF:PP to VWF indicates increased clearance of VWF. These are found in various patients with congenital VWF deficiency, but also in acquired VWF syndrome.

An accurate knowledge of the clearance of VWF may influence the choice of therapy, in particular the need to administer VWF concentrates. Increased levels of VWF:PP or an abnormal ratio between VWF:PP and VWF may also be caused by activation of the endothelium or platelets.



Informations

the FIX in FIXa.

Factor VII (FVII) is a glycoprotein synthesized by the

liver, vitamin k dependent. When tissue factor (TF) appears on the surface of damaged, abnormal or

activated vascular endothelium, FVIIa associates with it, initiating the pathway extrinsic coagulation.

The FT-FVIIa complex activates the FX in FXa and

### **ELISA**

### IMUBIND® Factor VIIa ELISA













Reference	Presentation	Number of tests
11-827	Kit	12 x 8

The IMUBIND® Factor VIIa ELISA is an enzyme-linked immunosorbent assay for the quantification of activated human Factor VII (FVIIa) in plasma as well as in cell culture supernatants.

This ELISA detects FVIIa as well as FVIIa complexed with tissue factor (TF/FVIIa).

### Components

- 12 x 8-well breakable ELISA strips coated with anti-human FVII / FVIIa monoclonal antibody
- 2 vials of FVIIa standard, 200 ng / mL lyophilized
- 1 vial of FVII deficient plasma, 0.5 mL lyophilized
- 1 vial of reference plasma, 300 uL lyophilized
- 1 vial of FVIIa inhibitor, biotinylated, 200 µL freeze-dried concentrate
- 1 vial of enzyme conjugate, streptavidin-HRP, 120 μL
- 1 vial of TMB substrate, 11 mL
- 1 vial of stabilizer, 4.0 mL lyophilized
- 1 vial of test diluent, 22 mL lyophilized
- 1 packet of wash buffer, PBS with Tween 20 0.05%

### Method / Application

The IMUBIND FVIIa ELISA assay uses a biotinylated FVIIa enzyme inhibitor and anti-FVII / FVIIa monoclonal antibody as the capture antibody. Diluted plasma samples or supernatants containing FVIIa are incubated with the biotinylated inhibitor, which covalently binds to FVIIa but not FVII.

The samples are added to the microwell coated with the capture monoclonal antibody. The FVIIa is detected thanks to the streptavidin-HRP which will bind the FVIIa complex captured at the bottom of the well by the monoclonal antibody and the biotinylated FVIIa inhibitor.

The TMB will thus recognize the HRP giving a blue compound which will be stopped by adding sulfuric acid giving a yellow compound, measured at 450nm. The results will be compared with a known FVIIa standard curve.

#### Characteristics

- Stability 1 month after opening
- Reaction time 120 minutes
- This test recognizes both native and recombinant human FVIIa and FVIIa/TF complexes
- FVII is not detected in the test
- FVII does not auto-activate in FVIIa during the execution of this test
- FVIIa in normal plasmas is approximately 5 ng/mL
- Sensitivity between 0.6 to 100 ng/mL



**ELISA** 

**ELISA Assay** 

### **IMUBIND® Tissue Factor ELISA**













Reference	Presentation	Number of tests
11-845	Kit	12 x 8

The IMUBIND® Tissue Factor ELISA is intended for the measurement of human tissue factor (TF, thromboplastin) in human plasma, tumor tissue extracts and cell culture supernatants (eg, monocytes stimulated by LPS lipopolysaccharide).

#### Informations

Tissue factor (TF) is a 45 kDa transmembrane cell surface glycoprotein known for its role in the initiation of coagulation. It functions as a receptor and cofactor for FVII and FVIIa. TF is released into the bloodstream after disruption of the endothelium.

Contact between TF and blood is sufficient to initiate the extrinsic pathway of coagulation. In vitro studies reveal that once TF is complex with FVII, FVII is activated by FXa. FVIIa by itself possesses low proteolytic activity, only when bound to TF does it possess sufficient proteolytic activity to activate FIX and FX.

The TF / FVIIa complex effectively activates both FX and FIX, thereby initiating intrinsic and extrinsic coagulation pathways.

The extrinsic pathway is rapidly attenuated by the tissue factor pathway inhibitor (TFPI). TFPI is the only effective inhibitor of the TF / FVIIa complex.

### Components

- 96-wells plate coated with anti-TF IgG
- 6 vials x freeze-dried TF (0-1000 pg / mL) standard
- 2 vials x biotinylated detection antibody, lyophilized
- 1 vial x enzyme conjugate, streptavidin-HRP, 60
- 1 vial x enzyme conjugate diluent, 20 mL lvophilized
- 1 vial x substrate, TMB, 11 mL
- 1 packet x wash buffer. PBS with 0.1% Triton X-100, pH 7.4

### Characteristics

Stability 1 month after opening. This test measures TF in plasma, tissue extracts,

cell culture supernatants Absorbance at 450nm Standards can be aliquoted and frozen Sensitivity between 0 to 1000pg / mL.





#### **ELISA Assay**

### **IMUBIND® Tissue PAI-1 ELISA**

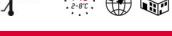












Reference	Presentation	Number of tests
11-821	Kit	96

The IMUBIND® Tissue PAI-1 ELISA Kit is an enzyme immunoassay for the determination of human PAI-1 in tissue extracts and cell culture supernatants.

### Informations

Plasminogen activator inhibitor 1 (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an essential role in controlling any excessive activation of fibrinolysis. It is present in plasma associated with vitronectin, in free form or associated with t-PA and in the alpha granules of platelets.

Fibrinolysis corresponds to the solubilization of the fibrinous thrombus by plasmin, an enzyme originating from plasminogen adsorbed to fibrin. Plasminogen is activated by t-PA and u-Pa. PAI-1 by inhibiting plasminogen activators, it controls the degradation of fibrinous thrombus. A decrease in fibrinolytic activity promotes the occurrence of thrombosis, while excessive fibrinolysis leads to hemorrhages.

### Components

- 96 microwells coated with anti-human PAI-1 IgG
- 2 vials x biotinylated human anti-PAI-1 antibody, lyophilized
- 1 vial x substrate, TMB, 11 mL
- 1 bottle x detergent, 25% Triton X-100, 12 mL
- 2 sachets x PBS buffer, pH 7.4
- 1 vial x streptavidin-HRP, 60 μL
- 1 vial x lyophilized enzyme conjugate diluent
- 6 PAI-1 standard vials, lyophilized

### Advantages

The test detects latent (inactive) and active forms of PAI-1 complexes and remains insensitive to PAI-2.





Fluorometric assay

## **OLIGOBIND® APC Activity Assay**





APC BLOOD COLLECTION TUBES

### Informations

Une incapacité à générer des quantités suffisantes de protéine C activée (APC) est associée à un phénotype prothrombotique et hyperinflammatoire.

La gravité des symptômes cliniques dépend de l'activité APC résiduelle.

Le phénotype prothrombotique est le symptôme principal dans les formes plus légères de déficit en APC, telles que le déficit en PC hétérozygote, alors que les formes plus graves de déficit en APC, telles que le déficit en PC homozygote, sont caractérisées par un phénotype thrombo-inflammatoire.

Le dysfonctionnement acquis en APC est impliqué de manière critique dans la pathogenèse de plusieurs maladies thrombo-inflammatoires, y compris les septicémies sévères.



Reference	Presentation	Number of tests
26-ADG855	Kit	96

OLIGOBIND® APC activity assay is an enzymatic capture assay for the quantitative measurement of activated protein C in stabilized plasma samples.

### Components

- 12 breakable ELISA strips x 8 wells lined with aptamers
- 1 bottle x 50 mL washing buffer 10 x concentrate
- 1 vial x 2 mL sample dilution buffer
- 1 vial x 0.5 mL CaCl2 solution
- 2 sets x 7 vials of 0.5 mL calibrators numbered 1 to 7  $\,$
- 1 vial x 140 µL fluorogenic APC substrate
- 1 bottle x 15 mL substrate buffer

### Advantages

Du plasma est ajouté à des micropuits recouverts d'un apatamère ADN dirigé contre l'APC. Après une période d'incubation, l'APC présente dans l'échantillon se lie à l'apatamère fixé aux puits.

Après un lavage, le substrat peptidique fluorogène pour l'APC est ajouté aux puits.

La mesure du changement de fluorescence (360 [ex] / 460 [em] nm) et en extrapolant la valeur avec celles d'une courbe d'étalonnage détermine le niveau d'APC dans l'échantillon de plasma.

#### Characteristics

En combinaison avec les tubes de collecte de sang APC (réf. 26-ADG855T25 et 26-ADG855T50) qui assurent la stabilisation de l'activité de l'APC ex vivo, le test d'activité OLIGOBIND® APC activity assay permet la quantification directe du taux de protéine C active dans le plasma à partir du sang périphérique.



Fluorometric assay

## **OLIGOBIND® Thrombin Activity Assay**

















#### Reference Presentation Number of tests 26-ADG844 Kit 96

OLIGOBIND® Thrombin activity assay is an enzymatic capture assay for the quantitative measurement of thrombin in stabilized plasma samples.

Associated products

THROMBIN BLOOD COLLECTION TUBES

### Informations

The conversion of prothrombin to thrombin is a key event in thrombus formation. Thrombin is a serine protease that acts on a wide variety of substrates during the clotting process.

Thrombin generated in vivo can be assessed indirectly by measuring the fragment of prothrombin F1.2, an activating peptide generated during the conversion of prothrombin to thrombin, or thrombin-antithrombin complexes (TAT), formed during inactivation of thrombin by its major inhibitor present in plasma.

However, due to differential accumulation in the circulation, these parameters do not reflect the current state of functional active thrombin in vivo.

### Components

- 12 breakable ELISA strips of 8 wells coated with
- 1 bottle x 50 mL washing buffer concentrate
- 2 sets x 6 vials of 0.5 mL calibrators numbered 1
- 1 bottle x 140 µL fluorogenic substrate
- 1 bottle x 15 mL substrate buffer

#### Characteristics

In combination with the thrombin blood collection tubes (product ref. 26-ADG844T25 and 26-ADG844T50) which ensure ex vivo stabilization of thrombin activity, the OLIGOBIND® Thrombin activity assay kit allows direct quantification of the level of thrombin.

- Functional active thrombin in blood plasma
- End point or kinetic measurement Low limit of quantification 0.35 mU / mL thrombin
- Specific for human thrombin
- Platelets may interfere with the test





**ELISA** 

**ELISA Assay** 

### TECHNOZYM® FIBRONECTIN ELISA Kit









Reference	Presentation	Number of tests
4-TC12030	Kit	12 x 8

#### ELISA kit for the antigenic assay of Fibronectin.

The Technozym® Fibronectin ELISA kit allows the antigenic detection of intact and uncleaved fibronectin (FN) in human plasma.



### Informations

Fibronectin is a glycoprotein that exists in soluble form in plasma or in fibrillar form in the extracellular matrix. This protein modulates the interactions between cells and the extracellular

In the absence of fibrinogen, fibronectin controls cogulation.

Fibronectin can bind to fibrin to strengthen clots and make them more stable. Fibronectin has shown roles in platelet function, fibrinolysis, chemotaxis, phagocytosis, and opsonization.

In certain pathologies such as trauma, sepsis, liver disorders, the fibronectin level may be low. Conversely, some cancers can have high fibronectin levels.

### Components

- 12 strips of 8 wells coated with anti-FN monoclonal antibody
- 2 adhesives for ELISA plate
- 1 vial x anti-FN monoclonal antibody coupled to peroxidase (POX)
- 1 vial x TMB chromogenic substrate (12 mL)
- 1 bottle x stop solution (15 mL)
- 3 vials x 2.5x concentrated dilution buffer (20 mL)
- 1 vial x Wash Buffer Concentrate 12.5 x (20 mL)
- 1 vial x lyophilized calibrator plasma

### Characteristics

The test is based on the quantification of fibronectin using 2 anti-FN monoclonal antibodies. The first to bind fibronectin and the second coupled to peroxidase for detection. (Specialized hemostasis)

- Stability 2 months after opening.
- Reaction time 120 minutes.
- Sensitivity of the assay ranging from 0 to 2 μg / mL of fibronectin.





**ELISA** 

**ELISA Assay** 

## TECHNOZYM® Glu-Plasminogen ELISA Kit

Number of tests

12 x 8





4-TC12040





Kit

Reference Presentation	$\sim$		
	Reference	Presentation	

ELISA kit for the antigenic assay of Glu-Plasminogen.

The Glu-Plasminogen ELISA kit allows the antigenic detection of Glu-Plasminogen in plasma.



### Informations

Plasminogen is the inactive precursor of plasmin, the enzyme responsible for fibrinolysis. plasminogen is synthesized by the liver as a 92 kDa single chain glycoprotein.

Its plasma concentration is approximately 220 µg / mL with a half-life of 2.2 days.

Plasminogen activator transforms it into plasmin. The level of fibrinogen is a critical factor influencing the rate of fibrinolysis in vivo.

### Components

- 12 x 8-well breakable ELISA strips coated with an anti-plasminogen monoclonal antibody
- 2 adhesives for ELISA plate
- 1 vial x anti-plasminogen monoclonal antibody coupled to peroxidase (POX) 0.3 mL
- 1 vial x 12 mL TMB chromogenic substrate
- 1 bottle x 12 mL stop solution
- 1 vial x washing buffer concentrate 80 mL
- 1 vial x incubation buffer 90 mL
- 1 vial x lyophilized calibrator plasma

#### Characteristics

The measurement is based on the use of a monoclonal antibody directed against glu-plasminogen. A second anti-plasminogen monoclonal antibody coupled to peroxidase makes it possible to quantify alu-plasminogen in the sample. (Specialized hemostasis)

- Stability 6 months after opening.
- Reaction time 200 minutes.
- Sensitivity of the assay ranging from 0.06 to 0.5 μg / mL for Glu-Plasminogen.
- Unaffected by the presence of PAP complexes or plasmin obtained from lys-plasminogen.





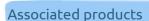
## ASSAYS KITS

**ELISA** 

**ELISA Assay** 

### **TECHNOZYM® PAP Calibrator Set**





TECHNOZYM® PAP Complex ELISA Kit

TECHNOZYM® PAP Control Set

### Informations

Plasmin is the main enzyme in fibrinolysis, which breaks down fibrin.

Alpha-2-antiplasmin is an inhibitor of serine proteases, mainly plasmin. It plays an important role in the regulation of fibrinolysis. A decrease in the amount of alpha-2-antiplasmin can lead to bleeding syndromes.

Alpha-2-antiplasmin reacts rapidly to plasmin to form a PAP complex. An increase in the formation of the PAP complex is accompanied by an increase in the formation of fibrin and an increase in the level of reactive plasmin.

There is a correlation between the level of fibrin fragment and the level of PAP complex.



Reference	Presentation	Format
4-TC12062	Vial	5 x 0.5 mL

Additional calibration plasmas for the antigenic assay of the PAP complex.

A range of 5 additional calibrators for the TECHNOZYM® PAP Complex ELISA Kit.



### Components

- 5 vials x 0.5 mL lyophilized plasma

### Characteristics

- Stability 6 months at -20 °C



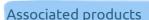


## ASSAYS KITS ELISA

**ELISA Assay** 

## **TECHNOZYM® PAP Complex ELISA Kit**





TECHNOZYM® PAP Calibrator Set

TECHNOZYM® PAP Control Set



Plasmin is the main enzyme in fibrinolysis, which breaks down fibrin.

Alpha-2-antiplasmin is an inhibitor of serine proteases, mainly plasmin. It plays an important role in the regulation of fibrinolysis. A decrease in the amount of alpha-2-antiplasmin can lead to bleeding syndromes.

Alpha-2-antiplasmin reacts rapidly to plasmin to form a PAP complex. An increase in the formation of the PAP complex is accompanied by an increase in the formation of fibrin and an increase in the level of reactive plasmin.

There is a correlation between the level of fibrin fragment and the level of PAP complex.



Reference	Presentation	Number of tests
4-TC12060	Kit	12 x 8

#### ELISA kit for the antigenic assay of the PAP complex.

The TECHNOZYM® PAP Complex ELISA kit allows the detection of plasmin / alpha-2-antiplasmin complexes in human plasma.

High levels of this complex can occur in thrombotic events, hyperfibrinolysis or in thrombolytic therapies.

### Components

- 12 breakable strips of 8 wells coated with anti-PAP monoclonal antibody
- 2 adhesives for ELISA plate
- 1 vial x anti-plasminogen antibody coupled to peroxidase, 0.3mL
- 1 bottle x 12 mL stop solution
- 2 vials x 20 mL wash buffer concentrate
- 1 vial x concentrated dilution 20 mL
- 5 vials x freeze-dried 0.5 mL calibrator
- 1 lyophilized low control vial
- 1 lyophilized top control vial

### Characteristics

The measurement is based on the use of a monoclonal antibody directed only to a specific epitope of the PAP complex. The antibody therefore does not recognize free  $\alpha$ 2-antiplasmin or free plasminogen.

A second anti-Glu-plasminogen monoclonal antibody coupled to peroxidase makes it possible to measure Glu-plasminogen. (Specialized hemostasis)

- Stability 3 months after opening.
- Reaction time 150 minutes.
- Sensitivity of the assay ranging from 0.6 to 225 ng / mL of PAP complexes.





## **ASSAYS KITS**

Associated products

TECHNOZYM® PAP Calibrator Set

TECHNOZYM® PAP Complex ELISA Kit

**ELISA** 

**ELISA Assay** 

### **TECHNOZYM® PAP Control Set**



















Reference Presentation **Format** 4-TC12064 Vial  $2 \times 0.5 \, \text{mL}$ 

Additional control plasmas for the antigenic assay of the PAP complex.

Additional quality controls for the TECHNOZYM® PAP Complex ELISA Kit.



### Informations

Plasmin is the main enzyme in fibrinolysis, which breaks down fibrin.

Alpha-2-antiplasmin is an inhibitor of serine proteases, mainly plasmin. It plays an important role in the regulation of fibrinolysis.

A decrease in the amount of alpha-2-antiplasmin can lead to bleeding syndromes.

Alpha-2-antiplasmin reacts rapidly to plasmin to form a PAP complex. An increase in the formation of the PAP complex is accompanied by an increase in the formation of fibrin and an increase in the level of reactive plasmin. There is a correlation between the level of fibrin fragment and the level of PAP complex.

#### Components

- 2 vials x 0.5 mL lyophilized plasma

### Characteristics

- Stability 6 months at -20 °C





## **ASSAYS KITS ELISA**

**ELISA Assay** 

### TECHNOZYM® PCI Actibind® ELISA Kit





Coagulation Control A

Coagulation Control N

Coagulation Reference



The protein C inhibitor (PCI) is a member of the serpin family. (Serine protease inhibitor).

It inactivates APC, thrombin, FXa, FXIa, kallikrein, urokinase, and t-PA and u-PA. PCI could be involved in the regulation of fibrinolysis and the C protein system.

Low antigenic and PCI activity values □□have been determined in patients with disseminated intravascular coagulation (DIC).















Quantitative antigenic assay of protein C inhibitor (PCI) in citrated human plasma or EDTA by ELISA method.

The Protein C Inhibitor Actibind® ELISA kit allows the antigenic determination of the protein C inhibitor in human plasma by the ELISA method.

### Characteristics

PCI binds to immobilized urokinase and is then revealed by a monoclonal antibody coupled to the enzyme: peroxidase.

This enzyme hydrolyzes the chromogenic substrate: TMB, to form a colored compound whose reaction will be stopped by sulfuric acid. Antigen PCI levels are related to disseminated intravascular coagulation (DIC).



### Components

- 12 breakable ELISA strips of 8 wells
- 1 vial x anti-PCI monoclonal antibody coupled to peroxidase (POX) (0.3 mL)
- 1 vial x lyophilized urokinase
- 1 vial x TMB substrate (12 mL)
- 1 vial x stop solution (15 mL)
- 1 vial x POX dilution buffer (12 mL)
- 2 vials x Sample Dilution Buffer (20 mL)
- 1 vial x wash buffer Concentrate (20 mL)
- 1 vial x lyophilized calibrator (1.0 mL)
- 1 vial x lyophilized top control plasma (1.0 mL)





Informations

**ELISA Assay** 

### **ELISA**

### TECHNOZYM® t-PA Combi Actibind® ELISA Kit

Number of tests

12 x 8









Kit

Reference Pres	sentation

#### ELISA kit for antigen assay and t-PA activity.

4-TC16000

The actibind® ELISA combi t-PA kit enables antigenic and t-PA activity detection using antibodies that do not interfere with functional t-PA.



Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line the blood vessels.

Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme. Due to its lysis activity, t-PA is used in clinical medicine to treat cerebral embolism and thrombosis.

Its use is contraindicated in cases of cerebral hemorrhage or head trauma.

### Components

- 12 strips of 8 breakable wells, coated with anti-t-PA monoclonal antibody
- 2 adhesives for ELISA plate
- 1 vial x anti-t-PA antibody coupled to peroxidase (POX), 0.3mL
- 1 vial x incubation buffer (90 mL)
- 1 vial x wash buffer (80 mL)
- 1 vial x TMB chromogenic substrate (12 mL)
- 1 bottle x stop solution (15 mL)
- 1 vial x dilution buffer (20 mL)
- 1 vial x a mixture for the detection of plasminogen activator coupled to pNa
- 1 vial x recombinant t-PA calibrator

#### Characteristics

The bound t-PA converts glu-plasminogen into plasmin which causes, with the substrate, a release of a colored product, the concentration of which is proportional to the quantity of active t-PA. After washing, the t-PA remains bound to the wells and incubation with the anti-t-PA monoclonal antibody coupled to POX will recognize the active and inactive forms of t-PA.

POX will give the substrate a colored compound whose concentration is proportional to the total amount of t-PA.

T-PA activity: 0.05-10 IU / mL Antigenic: 0.1 to 20 ng/mL





**ELISA Assay** 

### **ELISA**

## **TECHNOZYM® t-PA-PAI-1 Complex ELISA**









Reference	Presentation	Number of tests
4-TC12080	Kit	12 x 8

ELISA kit for the antigenic assay of the t-PA-PAI-1 complex.

The tPA-PAI-1 Complex ELISA kit allows antiqenic detection of the t-PA / PAI-1 complex.



### Informations

Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line the blood vessels.

Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme.

In order to understand how fibrinolysis is regulated in patients, it is necessary to know the circulating concentration of active t-PA, active PAI-1 and t-PA / PAI-1 complexes.

### Components

- 12 breakable ELISA strips (12 x 8 wells coated with anti-t-PA monoclonal antibody)
- 2 adhesives for ELISA plate
- 1 vial x anti-PAI-1 monoclonal antibody coupled to peroxidase (POX)
- 1 vial x dilution buffer (20 mL)
- 1 vial x POX dilution buffer (12 mL)
- 1 vial x TMB chromogenic substrate (12 mL)
- 1 bottle x stop solution (15 mL)
- 1 vial x wash buffer (20 mL)
- 1 vial x t-PA / PAI-1 Complex Calibrator

#### Characteristics

The measurement is based on the use of a monoclonal antibody that will bind t-PA or t-PA / PAI-1 complexes at the bottom of the well. A second anti-PAI-1 monoclonal antibody coupled to peroxidase makes it possible to measure the t-PA / PAI-1 complex. Only the complexes are quantified, sensitivity from 0 to 20 ng / mL.





#### **ELISA Assay**

### TECHNOZYM® u-PA Combi Actibind® ELISA Kit





TECHNOZYM® u-PA ELISA Kit



Belonging to the serine protease family, u-PA activates plasminogen to convert it into plasmin, an enzyme allowing the degradation of fibrin. It intervenes in the phases of dissolution of the clot during fibrinolysis.



Reference	Presentation	Number of tests
4-TC16010	Kit	12 x 8

#### ELISA kit for antigen assay and u-PA (urokinase Plasminogen Activator) activity.

The Technozym® u-PA Combi Actibind® ELISA kit allows antigen detection and u-PA activity using coated antibodies that do not interfere with the functional u-PA to be assayed.



### Components

- 12 x 8-well breakable ELISA strips coated with monoclonal anti-u-PA antibody
- 1 vial x biotinylated human u-PA polyclonal antibody
- 1 vial x TMB chromogenic substrate (12 mL)
- 1 bottle x stop solution (15 mL)
- 1 vial x dilution buffer (20 mL)
- 1 vial x POX dilution buffer (12 mL)
- 1 vial x wash buffer (80 mL)
- 1 vial x detection dilution buffer (20 mL)
- 1 vial x lyophilized u-PA calibrator
- 1 vial x streptavidin peroxidase (POX) solution
- 1 vial x plasminogen activator detection

### Characteristics

First, the functional u-PA assay is performed using Glu-plasminogen and a low molecular weight plasmin substrate. Secondly, the ELISA plate is washed and then a monoclonal antibody specific to u-PA, recognizing free u-PAs and complexed with inhibitors, is used. It is revealed by peroxidase. (Specialized hemostasis)

- Stability 3 months after opening.
- Reaction time 160 minutes then 140 minutes.
- Antigen: sensitivity of the assay ranging from 0 to 10 ng / mL u-PA.
- Activity : sensitivity of the assay ranging from 0 to 1 U / mL of u-PA.



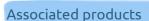


## ASSAYS KITS ELISA

**ELISA Assay** 

### TECHNOZYM® u-PA ELISA Kit





TECHNOZYM® u-PA Combi Actibind® ELISA Kit



Belonging to the serine protease family, u-PA activates plasminogen to convert it into plasmin, an enzyme allowing the degradation of fibrin.

It intervenes in the phases of dissolution of the clot during fibrinolysis.

It has also been shown to increase the amount of u-PA in some tumors.



Reference	Presentation	Number of tests
4-TC12010	Kit	12 x 8

#### ELISA kit for the antigenic assay of u-PA (urokinase Plasminogen Activator).

The Technozym® u-PA ELISA kit allows the quantitative antigenic detection of u-PA in human plasma and cell and tissue extracts such as tumors.



- 12 x 8-well breakable ELISA strips coated with anti-u-PA monoclonal antibody
- 1 vial x biotinylated anti-u-PA polyclonal antibody
- 1 vial x TMB chromogenic substrate (12 mL)
- 1 vial x streptavidin-coupled peroxidase (POX) solution
- 1 vial x dilution concentrate 2.5 x
- 1 vial x dilution buffer (POX)
- 1 bottle x stop solution (15 mL)
- 1 vial x wash buffer (80 mL)
- 1 vial x u-PA calibrator

#### Characteristics

The measurement is based on the u-PA binding to the bottom of the wells thanks to the anti-u-Pa monoclonal antibody, the u-PA will be revealed by a biotinylated anti-u-PA polyclonal antibody which will be detected with streptavidin-HRP and hydrolysis of TMB by HRP will give a stain whose absorbance will be read at 450 nm. Both single and double urokinase chains are detected. (Specialized hemostasis)

- Stability 6 months after opening.
- Reaction time 200 minutes.
- A calibrator calibrated against NIBSC 87/594 included.
- Sensitivity between 0.6 to 10 ng / mL.







**ELISA** 

**ELISA Assay** 

### TECHNOZYM® VITRONECTIN ELISA Kit









Reference	Presentation	Number of tests
4-TC12120	Kit	12 x 8



The Technozym® Vitronectin ELISA kit allows the detection of vitronectin in plasma.



### Informations

Vitronectin (Vn) is an adhesive glycoprotein, synthesized by the liver, released in plasma and present in the extracellular matrix. Vn binds PAI-1. This complex fully activates PAI-1, unlike PAI-1 in solution, where it does not appear to be stable and inactive.

Vn therefore seems to regulate the enzymatic specificity of PAI-1, by stabilizing it. Decreased Vn levels occur in DICs and liver disease (cirrhosis). Vn deposition is associated with atherosclerotic lesions.

### Components

- 12 breakable ELISA strips (12 x 8 wells)
- 2 adhesives for ELISA plate
- 1 vial x conjugated antibody-POX
- 1 vial x TMB chromogenic substrate (12 mL)
- 1 bottle x stop solution (15 mL)
- 1 vial x 2.5x concentrated dilution buffer (20 mL)
- 1 vial x POX dilution buffer (12 mL)
- 1 vial x 12.5x wash buffer concentrate (20 mL)
- 1 vial x lyophilized calibrator plasma

### Characteristics

The test is based on the quantification of vitronectin using 2 antibodies; the first monoclonal to bind Vn and the second polyclonal coupled to POX for detection. (Specialized hemostasis)

- Stability 3 months after opening.
- Reaction time 240 minutes.
- Dosage sensitivity ranging from 0 to 400% vitronectin.



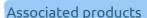


ELISA Assay

### **ELISA**

## TECHNOZYM® VWF:CBA ELISA Collagen Type VI





TECHNOZYM® VWF:CBA Control Set

TECHNOZYM® VWF:CBA ELISA Collagen Type I



Reference	Presentation	Number of tests
4-5450321	Kit	12 x 8

ELISA kit for the determination of Von Willebrand factor based on its capacity of binding to type VI collagen.

TECHNOZYM® VWF: CBA ELISA Collagen Type VI allows the antigenic determination of Von Willebrand factor in human plasma by ELISA method.



### Informations

VWF is a multimeric high molecular weight (HPM) glycoprotein involved in primary hemostasis. VWF protects FVIII from degradation and transports it to plasma, and mediates platelet activation by binding to their membrane receptors GPIb and GPIIb / IIIa. A quantitative or qualitative defect of VWF causes hemorrhagic pathologies which can be acquired or hereditary. VWF assay is needed to determine the type of disease.

HPM forms of VWF preferentially bind to collagen than low molecular weight forms.

The binding capacity of VWF to collagen serves as a parameter to determine the adhesive properties of VWF thus reflecting its physiological properties.

A decrease in collagen binding can be due to:

- a decrease in the rate of VWF (type 1 and type 3 VWD)
- an absence of HPM multimer (type 2A and 2B VWD): a rare specific deficiency in collagen binding is classified as type 2M.

### Components

- 12 breakable ELISA strips (12 x 8 wells coated with type VI collagen)
- 2 adhesives for ELISA plate
- 1 vial x conjugated antibody concentrate (0.3 mL)
- 1 vial x TMB chromogen (12 mL)
- 1 bottle x stop solution (12 mL)
- 1 vial x incubation buffer (90 mL)
- 5 vials x freeze-dried calibrators
- 1 vial x lyophilized low control plasma
- 1 vial x lyophilized high control plasma

### Advantages

- Better reproducibility.
- Better sensitivity.
- Better correlation with the HPM forms of VWF.
- Better sensitivity in detecting low amounts of VWF in severe type 1 deficiency.

#### Characteristics

- Reflects the physiological activity of VWF in plasma and concentrates.
- Marker of response to DDAVP.
- Detects high concentrations of VWF from HPM in PTT (Thrombotic Thrombocytopenic Purpura).
- Detects low concentrations of low molecular weight VWF in TE (Essential Thrombocythemia).
- Allows the identification of samples with a proven deficit of VWF multimers using a polyclonal antibody and the ability of VWF to bind to type VI collagen. (Specialized hemostasis).
- Sensitivity: 0 1.3 IU / mL





Reference	Designation Click to go to the product sheet	PM (g/mol)	Extinction coefficient	Activity	WEB
Lactadherin MFGE-	8 protein (Milk fat globule-EGF Factor 8 protein)				
9-BLAC-1200	→ Bovine Lactadherin	47 000	16.5		₩
9-BLAC-FITC	→ Bovine lactadherin coupled to FITC	47 000	16.5		₩
Lys-plasminogen					
4-TC41014	→ Human lys-plasminogen (lyophilized)			Lys-Plg > 90 % - Glu-Plg < 10 %	•
Osteocalcin					
9-BOC-3020	→ Bovine osteocalcin (bone)	5 800	13.3		
9-HOC-0302	→ Human osteocalcin	5 800	13.3		<b>R</b>
Osteonectin					
9-BON-3010	→ Bovine osteonectin (bone)	29 000	8.0		•
9-HON-0303	→ Human osteonectin	32 700	8.0		
scu-PA (Single chai	in urokinase plasminogen activator)				
4-TC41052	→ scu-PA purified protein			0.8 mg/Ml	₩
urokinase-type plas	minogen activator (u-PA)				
4-TC42000	→ u-PA purified protein			12 500 U	
Thrombospondin					
9-HCTP-0200	→ Human thrombospondin	450 000	10.5		•
Tissue-type Plasmir	nogen Activator (t-PA)				
4-TC41072	→ t-PA purified protein			> 300 000 U/mg	•
Vitronectin					
9-HVN-0230	→ Human vitronectin	75 000	13.8		
4-TC41140	→ Purified vitronectin	55 000 à 72 000			



Reference	Designation Click to go to the product sheet	PM (g/mol)	Extinction coefficient	Activity	WE
ß-2-glycoprotein I (E	32GI)				
9-B2GI-0001	→ Human ß-2-glycoprotein I (B2GI)	54 200	10.0		
ß-thromboglobulin					
9-HBTG-0210	→ Human ß-thromboglobulin	35 800	2.6		₩
CNBr					
4-TC41104	→ CNBr Fibrinogen fragments			7.4 mg/mL	<b>@</b>
Platelet Factor -4					
9-HPF4-0180	→ Human platelet Factor-4	29 000	2.6		
Tissue Factor					
11-4500	→ Recombinant human tissue factor				
9-RTF-0300	→ Recombinant tissue Factor	35 000	12.6		₩
11-4500L/B	ightarrow Relipidated recombinant human tissue Factor protein	45 000			₩
Fibrinogen					
9-HCI-0150R	→ Human fibrinogen	340 000	15.1		
9-HCI-0150D	→ Human fibrinogen fragment D	83 000	20.7		<b>@</b>
9-HCI-0150E	→ Human fibrinogen fragment E	50 000	10.2		₩
Fibronectin					
4-TC41150	→ Fibronectin protein	440 000			<b>@</b>
Glu-plasminogen					
4-TC41004	→ Human glu-plasminogen			Glu-Plg > 90 % - Lys Plg < 10	<b>R</b>
				%	
	tor inhibitor-type 1 (PAI-1)				
4-TC41067	→ PAI-1 purified protein				



Lactadherin MFGE-8 protein (Milk fat globule-EGF Factor 8 protein)

## **Bovine Lactadherin**







Bovine lactadherin coupled to FITC

### **Informations**

Lactadherin is a glycoprotein secreted by the mammary glands. It is involved in the recognition of apoptotic cells by macrophages, it has sequence homology with an angiogenic protein Del-1 and has an RGD sequence allowing it to bind to certain integrins. It binds the phophastidyl-L-serines independently of calcium via the C2 domain playing an anticoagulant role and the integrins via the EGF domain.

Reference	Presentation	Format
9-BLAC-1200	Vial	50 µg

Formulation: 70 mM sodium phosphate, pH 7.0

MW(Da): 47 000 Extinction coef.: 16,5

Structure: single chain with 2 EGF domains and 2 C domains. Lactadherin is purified from unpasteurized bovine milk.

### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.





Lactadherin MFGE-8 protein (Milk fat globule-EGF Factor 8 protein)

## Bovine lactadherin coupled to FITC







Reference	Presentation	Format
9-BLAC-FITC	Vial	83 µg

Formulation: TBS, 1 % Bovine Serum Albumin (w/v), 0.02 % Sodium Azide, pH 7.4

MW(Da): 47 000 Extinction coef.: 16.5

Structure: single chain with 2 EGF domains and 2 C domains. Lactadherin is purified from unpasteurized bovine milk



#### Informations

Bovine Lactadherin

Associated products

Lactadherin is a glycoprotein secreted by the mammary glands. It is involved in the recognition of apoptotic cells by macrophages, it has sequence homology with an angiogenic protein Del-1 and has an RGD sequence allowing it to bind to certain integrins. It binds the phophastidyl-L-serines independently of calcium via the C2 domain playing an anticoagulant role and the integrins via the EGF domain.

Fluorescein isothiocyanate or FITC is a derivative of fluorescein, used in a wide spectrum of applications such as flow cytometry. FITC is a functionalized fluorescein molecule with an isothiocyanate reactive group, replacing a hydrogen atom on the lowest ring of the structure.

### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities.

Discount according to quantities.

### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is

synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2

molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin

Lys-plasminogen

Informations

involve t-PA and u-PA.

## Human lys-plasminogen (lyophilized)







Reference

rtererence	rresentation	ronnac
4-TC41014	Vial	1 mg
4-TC41015	Vial	5 mg

Presentation

Formulation: 0.1M NaCl, 0.02M phosphate buffer, pH = 7.3

Ratio: Lys-Plg > 90 % - Glu-Plg < 10 % From human plasma

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



Osteocalcin

# Bovine osteocalcin (bone)







_		
Reference	Presentation	Format
9-BOC-3020	Vial	100 µg
9-BOC-3020-1	Vial	1 mg

Formulation: 50% (vol / vol) glycerol / 0.01M tris, 0.075M NaCl, pH 7.4.

MW(Da): 5 800 Extinction coef.: 13.3 Isoelectric point: 4.0-4.5

Structure: single chain, an intrachain disulfide bridge Cys 23-29



#### Informations

Human osteocalcin

Associated products

Osteocalcin is a vitamin K dependent protein produced by osteoblasts and found in high concentrations in bone.

It binds to phospholipids in the presence of calcium and binds hydroxyapatite suggesting a regulatory role in bone mineralization.

#### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50% (vol / vol) glycerol which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing

All products which are formulated with either glycerol or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished.

All products which are formulated with glycerol should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition.

When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to

Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation.

Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form.

Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), or gelatin.



#### Osteocalcin

# **Human osteocalcin**









## Associated products

Bovine osteocalcin (bone)

## Informations

Osteocalcin is a vitamin K dependent protein produced by osteoblasts and found in high concentrations in bone.

It binds to phospholipids in the presence of calcium and binds hydroxyapatite suggesting a regulatory role in bone mineralization.



Formulation: 20 mM Tris, 150 mM NaCl, 2mM CaCl2, pH 7.4

MW(Da): 5 800 Extinction coef.: 13.3 Isoelectric point: 4.0-4.5

Structure: single chain, an intrachain disulfide bridge Cys 23-29



The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities.

Discount according to quantities.

## Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times.

By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished.

All products which are formulated with glycerol/ $H_2O$  should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition.

Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation.

Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form.

Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), or gelatin.



Osteonectin

# Bovine osteonectin (bone)







Reference	Presentation	Format
9-BON-3010	Vial	50 µg
9-BON-3010-1	Vial	1 mg



Informations

Human osteonectin

Associated products

Osteonectin is an extracellular matrix adhesion glycoprotein. In vitro, osteonectin binds type I collagen, calcium and hydroxyapatite. It plays an important role in cell cohesion as well as in embryogenesis and healing processes. Osteonectin has also been identified in the alpha granules of platelets and is secreted during activation.

Formulation: 20 mM Tris, 150 mM NaCl, pH 7.4

MW(Da): 29 000 Extinction coef.: 8 Isoelectric point: 5.5

Structure: single chain, N-terminal acid domain, cysteine-rich serpine homology domain, 2

EF-hand domains

## Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

## Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H<sub>2</sub>O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), or gelatin.



Osteonectin

# Human osteonectin











# Associated products

Bovine osteonectin (bone)

Reference	Presentation	Format
9-HON-0303	Vial	50 µg
9-HON-0303-1	Vial	1 mg



## Informations

Osteonectin is an extracellular matrix adhesion glycoprotein. In vitro, osteonectin binds type I collagen, calcium and hydroxyapatite.

It plays an important role in cell cohesion as well as in embryogenesis and healing processes.

Osteonectin has also been identified in the alpha granules of platelets and is secreted during activation.

### Formulation: 20 mM Tris, 150 mM NaCl, pH 7.4

MW(Da): 32 700 Extinction coef.: 8

Structure: single chain, N-terminal acid domain, cysteine-rich serpine homology domain, 2

**EF-hand domains** 

## Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained

By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished.

All products which are formulated with glycerol/ $H_2O$  should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition.

Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation.

Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form.

Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene alvcol), or aelatin.



scu-PA (Single chain urokinase plasminogen activator)

# scu-PA purified protein





Reference	Presentation	Format
4-TC41052	Vial	100 µg

# Informations

Belonging to the family of serine proteases. U-PA activates plasminogen to convert it into plasmin, an enzyme that breaks down fibrin. It intervenes in the phases of dissolution of the clot during fibrinolysis. It has also been shown to increase the amount of u-PA in some tumors.

#### Formulation: 0.1 sodium acetate, 0.1M NaCl, pH 4.8.

Activity: 0.8 mg/mL Scu-PA comes from culture medium conditioned according to the method of Wojta et al (1)

(1) Wojta et al, Thrombosis and haemostasis 55 (3): 347. 1986.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/ $H_2O$  should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), or gelatin.



urokinase-type plasminogen activator (u-PA)

# u-PA purified protein







### Informations

Belonging to the family of serine proteases. U-PA activates plasminogen to convert it into plasmin, an enzyme that breaks down fibrin. It intervenes in the phases of dissolution of the clot during fibrinolysis. It has also been shown to increase the amount of u-PA in some tumors.

Formulation: Phosphate buffer + human albumin

Activity: 12 500 U From human plasma

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50% (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with alvcerol/H<sub>2</sub>O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), or gelatin.



Thrombospondin is a high molecular weight, calcium-binding, heparin-binding glycoprotein

found in human platelets. It is one of the most abundant proteins in the alpha granules of

platelets. It is stimulated by thrombin and there are

several receptors binding thrombospondin such as

**Thrombospondin** 

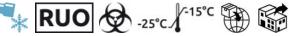
Informations

CD36, CD47 and integrins.

# **Human thrombospondin**











Reference	Presentation	Format
9-HCTP-0200	Vial	100 µд
9-HCTP-0200-1	Vial	1 mg



Formulation: 50/50 (v/v) glycerol + H2O

MW(Da): 450 000 Extinction coef.: 10.5

Obtained by the activated platelet supernatant. Isoelectric point: 4.7

Homotrimer structure (monomer: 150 kDa)

# Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to auantities

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50% (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H₂O should be stored at -20° C. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample. remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), or gelatin.



Tissue-type Plasminogen Activator (t-PA)

# t-PA purified protein





Reference	Presentation	Format
4-TC41072	Vial	100 µg

## Informations

Tissue plasminogen activator (t-PA) is a protein involved in breaking down the blood clot. It is a serine protease found in the endothelial cells that line the blood vessels. Like any enzyme, it converts plasminogen into plasmin, the main blood clot lysis enzyme. Due to its lysis activity, t-PA is used in clinical medicine to treat cerebral embolism and thrombosis. Its use is contraindicated in cases of cerebral hemorrhage or head trauma.

#### Recombinant

Activity: > 300 000 U/mg

Formulation: 0.1 M phosphate buffer, 3.5 mg/mL L-arginine, 0.001% tween 80

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. After reconstitution the antibodies should be aliquoted and stored at -70 °C. Avoid repeated freezing and thawing cycles. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



#### Vitronectin

# Human vitronectin











# Associated products

Purified vitronectin

Reference	Presentation	Format
9-HVN-0230	Vial	100 µд
9-HVN-0230-1	Vial	1 mg



#### Informations

Vitronectin (Vn) is an adhesive glycoprotein, synthesized by the liver, released in plasma and present in the extracellular matrix. Vn binds PAI-1. This complex fully activates PAI-1, unlike PAI-1 in solution, where it does not appear to be stable and inactive. Vn therefore seems to regulate the enzymatic specificity of PAI-1, by stabilizing it. Decreased Vn levels occur in DICs and liver disease (cirrhosis). Vn deposition is associated with atherosclerotic lesions.

#### Formulation: 50 mM sodium phosphate; 150 mM NaCl, pH 7.4

MW(Da): 75 000 (single chain form) 10 and 65 kda double chain form

Extinction coefficient: 13.8 Isoelectric point: 4.75 - 5.25

Structure: circular shape if monomeric or dimeric and possibility in oligomeric form.

Monomer: 459 amino acids, single chain polypeptide with 7 intrachain disulfide bonds and 1 free

sulfhydryl.

# Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics



Vitronectin

# **Purified vitronectin**



# Associated products

Human vitronectin

#### Informations

Vitronectin (Vn) is an adhesive glycoprotein, synthesized by the liver, released in plasma and present in the extracellular matrix. Vn binds PAI-1. This complex fully activates PAI-1, unlike PAI-1 in solution, where it does not appear to be stable and inactive. Vn therefore seems to regulate the enzymatic specificity of PAI-1, by stabilizing it. Decreased Vn levels occur in DICs and liver disease (cirrhosis). Vn deposition is associated with atherosclerotic lesions.



Reference	Presentation	Format
4-TC41140	Vial	50 µg

Formulation: 0.02M potassium phosphate buffer, 0.1M NaCl, pH 7.4

MW(Da): 55 000 to 72 000 From human plasma

#### Characteristics



**ß-2-glycoprotein I (B2GI)** 

# Human ß-2-glycoprotein I (B2GI)











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In	foi	rm	at	io	ns

Beta-2-Glycoprotein I (or apolipoprotein H) is a 326 amino acid protein synthesized by the liver, endothelial cells or trophoblast. It is made up of 5 domains of 60 amino acids. The 5th domain is the site of interaction with anionic phospholipids. Due to its binding to anionic phospholipids, it would have an inhibitory activity on platelet aggregation and on the various stages of coagulation.

Reference	Presentation	Format
9-B2GI-0001	Vial	100 µg
9-B2GI-0001-1	Vial	1 mg

Formulation: 0.2 M glycine; 0.15 M NaCl, pH 7.4

MW(Da): 54 200 Extinction coef.: 10

#### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to auantities.

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



Beta-thromboglobulin is a protein derived from platelets, low molecular weight and binding to

heparin. It is similar to platelet factor-4 in that it is localized in the alpha platelet granules. It is a

**B-thromboglobulin** 

Informations

marker of platelet activation.

# Human ß-thromboglobulin











Reference	Presentation	Format
9-HBTG-0210	Vial	100 µg
9-HBTG-0210-1	Vial	1 mg



MW(Da): 35 800 Extinction coef.: 2.6 Structure: homotetramer (approx. 8800 Da)



## Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to auantities.

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



**CNBr** 

# CNBr Fibrinogen fragments









#### Informations

Fibrinogen (Factor I) is a blood plasma soluble glycoprotein that is synthesized by the liver at a size of 340 kDa and circulating at a concentration of 2.6 to 3 mg/mL.

Fibrinogen is a dimer bound by disulfide bridges composed of 3 pairs of polypeptide chains not identical.

Under the action of thrombin, fibrinogen is converted into fibrin. In combination with FXIII. calcium ions, fibrin forms a stable network that ensures coagulation.

Reference	Presentation	Format
4-TC41104	Vial	1 mg
4-TC41105	Vial	5 mg

#### Human fibrinogen

Activity: 7.4 mg/mL

Prepare from purified human fibrinogen according to the Blombäck method et al (1).

(1) J.Wojta et al, Thrombosis and Haemostasis, 55: 347, 1986.

#### Characteristics

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Platelet factor 4 (PF4) is a peptide monomer of 70 amino acids (MW 7800 Da). PF4 is released from

activated platelet alpha granules in a tetrameric form complexed with platelet proteoglycan. On

release, the half-life of PF4 is very short, less than 5

minutes, because it quickly binds to

glycosaminoglycans in the endothelial cells where it is stored. PF4 possesses potent anti-heparin

activity by binding to it, forming a stochiometric

complex, where 1 mg of PF4 will inhibit 27 IU of

Platelet Factor -4

Informations

heparin.

# Human platelet Factor-4











Reference	Presentation	Format
9-HPF4-0180	Vial	100 µg
9-HPF4-0180-1	Vial	1 mg

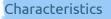
Formulation: 25 mM HEPES, 2 M NaCl, pH 7.4

MW(Da): 29 000 Extinction coef.: 2.6

Determination of activity: neutralization with heparin

Isoelectric point: 7.6

Structure: homotetramer (approx. 7800 da)



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**Tissue Factor** 

# Recombinant human tissue factor



# Associated products

Recombinant tissue Factor

Relipidated recombinant human tissue Factor protein



Tissue factor (FT) is a transmembrane glycoprotein which is primarily responsible for activating coagulation cascades in the event of a vascular breach.

The binding of FVII to its receptor, expressed by the cells of the subendothelium exposed by the lesion, allows its very rapid activation by traces of FXa, circulating in trace amounts in vivo.

The FT-FVIIa complex then causes the activation of FIX and FX and the formation of thrombin.



Reference	Presentation	Format	
11-4500	Vial	25 μg	

Formulation: lyophilized protein in a 10 mM Tris-HCl buffer, 150 mM NaCl, 0.01% CHAPS, pH 8, 200 mM Mannitol.

Whole recombinant human FT.

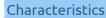
Animated acids 1 to 263 including the extracellular, transmembrane, cytoplasmic domains. MW(Da): 35 000 (38 kDa band under reduced conditions)

#### Components

Screw capped clear glass vials of 25 µg of protein lyophilized from 10 mM TRIS HCI, 150 mM NaCI, 0.01% CHAPS, pH 8.0, with 200 mM mannitol.

## Advantages

The lyophilized presentation allows greater stability until the expiration date.



Upon relipidation, this product will promote clotting in a two-stage prothrombin time test. Add 1.0 mL of filtered deionized or sterile water to generate a  $25 \,\mu\text{g/mL}$ .

Store lyophilized vials at +2/+8°C. Store reconstituted protein in aliquots frozen at -20°C or colder, avoid freeze-thaw cycles.



Tissue Factor

# Recombinant tissue Factor







## Associated products

Recombinant human tissue factor

Relipidated recombinant human tissue Factor protein

Reference	Presentation	Format
9-RTF-0300	Vial	10 µg

Formulation: 20 mM Tris, 150 mM NaCl, 10 mM CHAPS, pH 8.0

MW(Da): 35 000 Extinction coef.: 12.6

## Informations

Tissue factor (FT) is a transmembrane glycoprotein which is primarily responsible for activating coagulation cascades in the event of a vascular breach. The binding of FVII to its receptor, expressed by the cells of the subendothelium exposed by the lesion, allows its very rapid activation by traces of FXa, circulating in trace amounts in vivo. The FT-FVIIa complex then causes the activation of FIX and FX and the formation of thrombin.

#### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



Tissue Factor

# Relipidated recombinant human tissue Factor protein









F	RUO	2°C / 8°C	
	100	2°C./	

ASS	ouc	Iat	.eu	ы	ou	uci	.5

Recombinant human tissue factor

Recombinant tissue Factor

## Informations

Tissue factor (FT) is a transmembrane glycoprotein which is primarily responsible for activating coagulation cascades in the event of a vascular breach. The binding of FVII to its receptor, expressed by the cells of the subendothelium exposed by the lesion, allows its very rapid activation by traces of FXa, circulating in trace amounts in vivo. The FT-FVIIa complex then causes the activation of FIX and FX and the formation of thrombin.

#### Reference Presentation **Format** 11-4500L/B Vial 250 ng

Formulation: 50mM tris buffer, 100mM NaCl, pH 7.6 and 200 mg / mL of trehalose.

Structure: The protein contains amino acids 1 to 263 including the extracellular, transmembrane and cytoplasmic domains.

MW(Da): 45 000 Usage: 1-step coagulation test.

## Advantages

The lyophilized presentation allows greater stability until the expiration date.

## Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. To be taken up with 0.5 mL of distilled water to generate a solution of 500 nG / mL. Aliquot and freeze at -70  $^{\circ}$ C to avoid freeze / thaw cycles.





# Fibrinogen

# Human fibrinogen











Reference	Presentation	Format
9-HCI-0150R	Vial	2 mg
9-HCI-0150R-1	Vial	1 mg



Fibrinogen, is a soluble plasma glycoprotein that is synthesized in the hepatic cells.

#### Informations

Mouse fibrinogen

Associated products

Human fibrinogen fragment D Human fibrinogen fragment E

Fibrinogen (Factor I) is a blood plasma soluble glycoprotein that is synthesized by the liver at a size of 340 kDa and circulating at a concentration of 2.6 to 3 mg/mL.

Fibrinogen is a dimer bound by disulfide bridges composed of 3 pairs of polypeptide chains not identical.

Under the action of thrombin, fibrinogen is converted into fibrin. In combination with FXIII, calcium ions, fibrin forms a stable network that ensures coagulation.

Formulation: 10 mM citrate sodium, 10 mM sodium phosphate, pH 7.3

MW(Da): 340 000 Extinction coef.: 15.1

Isoelectric point between 5.1-6.3

CAS 9001-32-5

#### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to quarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



**Fibrinogen** 

# Human fibrinogen fragment D

**Format** 

200 µg

1 mg



# Associated products

Human fibrinogen

Human fibrinogen fragment E

Mouse fibrinogen



Fibrinogen (Factor I) is a blood plasma soluble glycoprotein that is synthesized by the liver at a size of 340 kDa and circulating at a concentration of 2.6 to 3 mg/mL.

Fibrinogen is a dimer bound by disulfide bridges composed of 3 pairs of polypeptide chains not identical. Under the action of thrombin, fibrinogen is converted into fibrin. In combination with FXIII, calcium ions, fibrin forms a stable network that ensures coagulation.

The degradation products of the fibrinogen end, produces Fragments D and E. Fragment D corresponds to globular domains of fibrinogen, or fragment E corresponds to amino acids of the N-terminal domain of disulfide - knot domain.

<u>₩</u> [KOO] (₩) -25°C/]		
Reference	Presentation	
9-HCI-0150D	Vial	

---- V-15°C 😘 🙈

Fibrinogen fragment D is a native human plasma protein obtained by degradation of plasminogen with plasmin.

Vial

MW(Da): 83 000 Extinction coef.: 20.7 Concentration: 2mg/mL

9-HCI-0150D-1

Isoelectric point between 5.1-6.3 Formulation: 0.9 % NaCl, 3 % glycine



The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

## Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene qlycol, Prionex or gelatin.





Fibrinogen

# Human fibrinogen fragment E



# Associated products

Human fibrinogen

Human fibrinogen fragment D

Mouse fibrinogen



Fibrinogen (Factor I) is a blood plasma soluble alycoprotein that is synthesized by the liver at a size of 340 kDa and circulating at a concentration of 2.6 to 3 mg/mL.

Fibrinogen is a dimer bound by disulfide bridges composed of 3 pairs of polypeptide chains not identical. Under the action of thrombin, fibrinogen is converted into fibrin. In combination with FXIII, calcium ions, fibrin forms a stable network that ensures coagulation.

The degradation products of the fibrinogen end, produces Fragments D and E. Fragment D corresponds to globular domains of fibrinogen, or fragment E corresponds to amino acids of the N-terminal domain of disulfide - knot domain.



Reference	Presentation	Format
9-HCI-0150E	Vial	100 µg
9-HCI-0150E-1	Vial	1 mg



MW(Da): 50 000 Extinction coef.: 10.2 Concentration: 0.32 mg/mL Isoelectric point between 5.1-6.3 Formulation: 0.9 % NaCl, 3 % glycine

#### Advantages

The vast majority of plasma derivatives is pure (without additives) with > 95 % purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

## Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to quarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.



Fibronectin is a glycoprotein that exists in soluble form in plasma or in fibrillar form in the

extracellular matrix. This protein modulates the

**Fibronectin** 

Informations

# Fibronectin protein





Reference	Presentation	Format
4-TC41150	Vial	1 mg

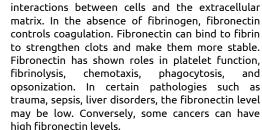
Formulation: 0.05M Tris, 0.15M NaCl, 0.03% NaN3, pH 7.4

From human plasma

MW(Da): 440 000 without reduction (double chain) and 22 000 in reduced condition.

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.





Glu-plasminogen

# Human glu-plasminogen





Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.



Reference	Presentation	Format
4-TC41004	Vial	1 mg
4-TC41005	Vial	5 mg

Formulation: 1% Hepes, 1% glycin, 1% saccharose, 2.5% Mannit buffer, pH 6.6

Ratio: Glu-Plg > 90 % - Lys Plg < 10 % From human plasma

#### Characteristics

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Plasminogen activator inhibitor-type 1 (PAI-1)

# PAI-1 purified protein





Reference	Presentation	Format
4-TC41067	Vial	500 U

Formulation: 50mM sodium acetate, 100mM sodium chloride, 60mM L-Arginine-monohydrochloride, 0.01% tween 80.

Recombinant

#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Brief centrifugation of the zymogens in their original packaging will fully recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin.

# Informations

Plasminogen activator inhibitor 1 (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an essential role in controlling any excessive activation of fibrinolysis. It is present in plasma associated with vitronectin, in free form or associated with t-PA and in the alpha granules of platelets. Fibrinolysis corresponds to the solubilization of the fibrinous thrombus by plasmin, an enzyme originating from plasminogen adsorbed to fibrin. Plasminogen is activated by t-PA and u-Pa. PAI-1 by inhibiting plasminogen activators, it controls the degradation of fibrinous thrombus. A decrease in fibrinolytic activity promotes the occurrence of thrombosis, while excessive fibrinolysis leads to hemorrhages.



Reference	Designation Click to go to the product sheet	PM (g/mol)	Source	Extinction coefficient	WEE
Factor Xa					
11-526	→ Human Factor Xa (FXa) RVV-X Activated	59000	Human		•
9-BCXA-1060	→ Bovine Factor Xa	45 300	Bovine	12.4	•
9-BCXA-EGR	→ Bovine Factor Xa- blocked active site (EGRck)	45 300	Bovine	12.4	•
9-HCXA-0060	→ Human Factor Xa	46 000	Human	11.6	•
9-HCXA-BEGR	→ Human Factor Xa - blocked active site (BEGRck)	46 000	Human	11.6	<b></b>
9-HCXA-DEGR	→ Human Factor Xa - blocked active site (DEGRck)	46 000	Human	11.6	₩
9-HCXA-EGR	→ Human Factor Xa - blocked active site (EGRck)	46 000	Human	11.6	₩
9-HCXA-GD	→ Human Gla-domainless ቤ-Factor Xa	39 800	Human	11.6	<b>®</b>
9-HCBXA-0061	→ Human ß-Factor Xa	44 859	Human	11.6	₩
Factor XIa					
9-HCXIA-EGR	→ Human Factor XIa - blocked active site (EGRck)	160 000		13.4	₩
9-HCXIA-0160	→ Human Factor XIa	160 000	Human	13.4	₩
Factor XIIa					
11-412HA	→ Human Activated Factor XII (FXIIa) (activated Hageman Factor)	80 000	Human	1.41	•
Factor XIIIa					
9-HCXIIIA-0165	→ Human Factor XIIIa	312 000	Human	13.8	•
Plasmin					
9-HCPM-0140	→ Human plasmin	83 000	Human	17.0	₩
Activated protein C	(APC)				
9-BCAPC-DEGR	→ Bovine Activated Protein C - blocked active site (DEGR)	52 650	Human	13.7	₩
9-BCAPC-1080	→ Bovine Activated Protein C (APC)	52 650	Bovine	13.7	₩



Reference	Designation Click to go to the product sheet	PM (g/mol)	Source	Extinction coefficient	WEB
9-HCAPC-0080	→ Human Activated Protein C	56 200	Human	14.5	₩
9-HCAPC-DEGR	→ Human Activated Protein C - blocked active site (DEG	GR) 56 200	Human	14.5	<b>@</b>
Thrombin (FIIa)					
9-BCT-BFPRCK	$\rightarrow$ Biotinylated bovine $\alpha\text{-thrombin}$ - blocked active site (FPRck)	36 700	Bovine	19.5	<b>@</b>
9-BCT-1020	$\rightarrow$ Bovine $\alpha$ thrombin	36 700	Bovine	19.5	₩
9-BCT-DFP	ightarrow Bovine $lpha$ thrombin - blocked active site (DFP)	36 700	Bovine	19.5	
9-BCT-FPRCK	$\rightarrow$ Bovine $\alpha$ thrombin - blocked active site (FPRck)	36 700	Bovine	19.5	•
9-HCGT-0021	ightarrow Human gamma-thrombin	34 300	Human	18.3	•
9-HCT-0020	ightarrow Human $lpha$ thrombin	36 700	Human	18.3	
9-HCT-DFP	ightarrow Human $lpha$ thrombin - blocked active site (DFP)	36 700	Human	18.3	
9-HCT-FPRCK	$\rightarrow$ Human $\alpha$ thrombin - blocked active site (FPRck) - PPACK	36 700	Human	18.3	₩
9-HCT-BFPRCK	$\rightarrow$ Human $\alpha$ thrombin - blocked active site (FPRck) - biotinylated PPACK	36 700	Human	18.3	₩
9-HCBT-0022	ightarrow Human ß thrombin	35 400	Human	18.3	•
Factor VIIa					
9-HCVIIA-0031	→ Human FVIIa	50 000	Human	13.9	•
Kallikrein					
11-473	→ Human kallikrein	85000		1.17	
Factor IXa					
9-BCIXA-1050	→ Bovine Factor IXa	45 000	Bovine	14.0	
9-BCIXA-DEGR	→ Bovine Factor IXa - blocked active site (DEGRck)	45 000	Bovine	14.0	•



Reference	Designation Click to go to the product sheet	PM (g/mol)	Source	Extinction coefficient	WEB
9-BCIXA-EGR	→ Bovine Factor IXa - blocked active site (EGRck)	45 000	Bovine	14.0	₩
9-HCIXA-0050	→ Human Factor IXa	45 000	Human	14.0	
9-HCIXA-DEGR	ightarrow Human Factor IXa - blocked active site (DEGRck)	45 000	Human	14.0	
9-HCIXA-EGR	→ Human Factor IXa - blocked active site (EGRck)	45 000	Human	14.0	₩
9-RATIXA-9050	→ Rat Factor IXa	45 000	Rat	14.0	



Factor Xa

# Human Factor Xa (FXa) RVV-X Activated





# Associated products

Bovine Factor Xa

Bovine Factor Xa - blocked acitve site (DEGRck)

Bovine Factor Xa- blocked active site (EGRck)

## Informations

Factor X is a vitamin K dependant, two-chain glycoprotein zymogen (Mr = 59 000) synthesized in the liver that circulates in plasma at a concentration of approximately 10 µg/mL.

Activation to factor Xa occurs by interaction with the intrinsic factor Xase complex (factor VIIa / IXa / Ca2+ / phospholipid) or the extrinsic factor Xase complex (Factor VIIa/tissue factor/Ca2+/phospholipid). Both complexes cleave the molecule at Arg52-Ile53, release an activation peptide from the heavy chain, resulting in factor Xa as a two-chain molecule where the light chain remains with a Mr of 17 000 and the heavy chain has been reduced to a Mr of 29 000.

Factor Xa provides the enzymatic activity of the prothrombinase complex (factor Xa / Factor Va / Ca2+ / phospholipid) which converts prothrombin to thrombin. While FXa can convert prothrombin to thrombin alone, its activity is greatly enhanced when a part of the complex. Its activity may be inhibited by inactivation of the factor Va cofactor or directly by a natural inhibitor such as antithrombin III (ATIII).

# Reference Presentation Format 11-526 Vial 80 µg

Human factor Xa is activated from human factor X, itself purified from human plasma, using activator from Russell's viper venom (RVV-X).

The activity has been measured via factor Xa clotting assay in 1 mL of normal human plasma.

## Advantages

The lyophilized presentation allows greater stability until the expiration date.

## Characteristics

Screw-capped glass vial containing 80 µg of human factor Xa lyophilized.

All enzymes are accompanied by certificates of analysis which describe the appropriate storage conditions.

In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed.





Factor Xa

# **Bovine Factor Xa**





Bovine Factor Xa - blocked acitve site (DEGRck)

Bovine Factor Xa- blocked active site (EGRck)

Human Factor Xa



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.



Reference	Presentation	Format
9-BCXA-1060	Vial	100 µд
9-BCXA-1060-1	Vial	1 mg

Structure: 2 PM subunits: 16 200 and 28 800 Da, N-terminal Gla domain and 2 EGF domains.

Formulation: 50/50 (v/v) glycerol/H2O

900 to 1 900 units/mg MW(Da) : 45 300 Extinction coef. : 12.4

Activity determined by coagulation and chromogenic tests

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

#### Characteristics

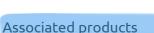
All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°IC and remain in fluid phase. Temperatures lower than -30°IC should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20°IC and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Factor Xa

# Bovine Factor Xa- blocked active site (EGRck)





Bovine Factor Xa

Bovine Factor Xa - blocked acitve site (DEGRck)

Human Factor Xa

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin. EGRck: Glu-Gly-Arg chloromethyl ketone. PM: 466 g/mol



Reference	Presentation	Format
9-BCXA-EGR	Vial	100 µg
9-BCXA-EGR-1	Vial	1 mg

Structure: 2 PM subunits: 16 200 and 28 800 Da, N-terminal Gla domain and 2 EGF domains.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % FXa activity - Active-site blocked

MW (Da): 45 300 Extinction coef.: 12.4

Activity determined by coagulation and chromogenic tests



The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

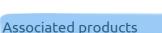
#### Characteristics



Factor Xa

# Human Factor Xa





Bovine Factor Xa - blocked acitve site (DEGRck) Bovine Factor Xa- blocked active site (EGRck)

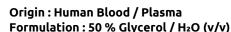








Reference	Presentation	Format
9-HCXA-0060	Vial	100 µg
9-HCXA-0060-1	Vial	1 mg



700 to 1 300 units/mg MW(Da): 46 000 Extinction coef.: 11.6

Activity determined by coagulation and chromogenic tests.



## Informations

Bovine Factor Xa

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TEPI and antithrombin.

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with alvcerol/H2O should be stored at -20° □C and remain in fluid phase. Temperatures lower than -30° □C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20°  $\square$ C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as boyine serum albumin, poly(ethylene glycol). Prionex or gelatin. Prionex is better than BSA.



Factor Xa

# Human Factor Xa - blocked active site (BEGRck)











Reference	Presentation	Format
9-HCXA-BEGR	Vial	100 µg
9-HCXA-BEGR-1	Vial	1 mg



Structure: 2 PM subunits: 16 200 and 28 800 Da, N-terminal Gla domain and 2 EGF domains. Formulation: 20 mM Hepes, 150 mM NaCl, pH 7.4

#### Informations

Bovine Factor Xa

Associated products

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product.

Bovine Factor Xa - blocked acitve site (DEGRck) Bovine Factor Xa- blocked active site (EGRck)

Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH.

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

< 1 % FXa activity - Active-site blocked.

MW(Da): 46 000 Extinction coef.: 11.6

Activity determined by coagulation and chromogenic tests

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities Discount according to quantities.

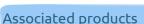
#### Characteristics



Factor Xa

# Human Factor Xa - blocked active site (DEGRck)





Bovine Factor Xa

Bovine Factor Xa - blocked acitve site (DEGRck)

Bovine Factor Xa- blocked active site (EGRck)



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin. DEGRck: Dansyl-EGRck (dansyl-Glu-Gly-Arg chloromethyl ketone): 642.1 q/mol



Reference	Presentation	Format
9-HCXA-DEGR	Vial	100 µg
9-HCXA-DEGR-1	Vial	1 mg

Structure: 2 PM subunits: 16 200 and 28 800 Da, N-terminal Gla domain and 2 EGF domains.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % FXa activity - Active-site blocked

MW(Da): 46 000 Extinction coef.: 11.6

Activity determined by coagulation and chromogenic tests.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics



Factor Xa

# Human Factor Xa - blocked active site (EGRck)





Bovine Factor Xa

Bovine Factor Xa - blocked acitve site (DEGRck)

Bovine Factor Xa- blocked active site (EGRck)



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product.

Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K.

FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

EGRck: Glu-Gly-Arg chloromethyl ketone.

# 

Reference	Presentation	Format
9-HCXA-EGR	Vial	100 µg
9-HCXA-EGR-1	Vial	1 mg

Structure: 2 PM subunits: 16 200 and 28 800 Da, N-terminal Gla domain and 2 EGF domains.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % Fxa activity - Active-site blocked

MW(Da): 46 000 Extinction coef.: 11.6

Activity determined by coagulation and chromogenic tests.

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Factor Xa

# Human Gla-domainless ß-Factor Xa





Bovine Factor Xa

Bovine Factor Xa - blocked acitve site (DEGRck)

Bovine Factor Xa- blocked active site (EGRck)

## Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K.

FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

# 

Reference	Presentation	Format
9-HCXA-GD	Vial	100 µg
9-HCXA-GD-1	Vial	1 mg

Formulation: 10 mM HEPES, 50 mM NaCl, pH 7.4

< 1 % FXa activity - Active-site blocked

MW(Da): 39 800 Extinction coef.: 11.6

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

## Characteristics



Factor Xa

# Human B-Factor Xa











Reference	Presentation	Format
9-HCBXA-0061	Vial	100 µg
9-HCBXA-0061-1	Vial	1 mg

Bovine Factor Xa- blocked active site (EGRck)

Formulation: 50/50 (v/v) glycerol/H2O

700 to 1 300 units/mg MW(Da): 44 859 Extinction coef.: 11.6

### Informations

Bovine Factor Xa

Associated products

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Factor X (FX) is a alvcoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TEPI and antithrombin.

Bovine Factor Xa - blocked acitve site (DEGRck)

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°IC and remain in fluid phase. Temperatures lower than -30°IC should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample. remove the sample from storage at -20° [C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Factor XIa

# Human Factor XIa - blocked active site (EGRck)











Reference	Presentation	Format
9-HCXIA-EGR	Vial	50 µg

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4



# Associated products

Bovine Factor Xa - blocked acitve site (DEGRck)

Bovine Factor Xa- blocked active site (EGRck)

Human Factor Xa - blocked active site (BEGRck)

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH.

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.

EGRck: Glu-Gly-Arg chloromethyl ketone. MW: 466 g/mol

## < 1 % activity XIa - Active-site blocked

MW(Da): 160 000 Extinction coef.: 13.4

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°□C and remain in fluid phase. Temperatures lower than -30°□C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° [C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Factor XIa

Informations

optimum temperature and pH.

in the presence of calcium ions.

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product.

Each enzyme has a structure adapted to its

function and its activity is dependent on an

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates

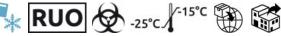
the intrinsic pathway of coagulation. It is activated

by FXIIa to factor FXIa which will itself activate FIX

## Human Factor XIa

















Buffer formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

Molecular weight (Da): 160 000

Extinction coef.: 13.4

Structure: 2 heavy chains of identical appearance (MW: 50,000 Da) and 2 light chains of identical

appearance (MW: 30,000 Da) held together by disulfide bridges.

Each light chain contains a catalytic domain.



### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with alvcerol/H2O should be stored at -20°□C and remain in fluid phase. Temperatures lower than -30°□C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at  $-20^{\circ}\Box C$  and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as boyine serum albumin, poly(ethylene glycol). Prionex or gelatin. Prionex is better than BSA.



Factor XIIa

Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product.

Each enzyme has a structure adapted to its function and its activity is dependent on an

optimum temperature and pH. Factor XII (FXII) is a glycoprotein synthesized by the liver. FXII participates in the contact phase which initiates the intrinsic pathway of coagulation. Activated on

contact with a negatively charged surface, it becomes capable of activating prekallikrein and

kallikrein (amplified by KHPM) then FXI to FXIa in

the presence of KHPM. The FXIa thus formed

activates the FXII in FXIIa, amplifying the reaction.

# Human Activated Factor XII (FXIIa) (activated Hageman Factor)







Reference	Presentation	Format
11-412HA	Vial	0.5 mg

Formulation: 4mM sodium acetate, 150mM sodium chloride, pH 5.3.

MW(Da): 80 000 Extinction coef.: 1,41

#### Characteristics

All enzymes are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed.





Factor XIIIa

Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product.

Each enzyme has a structure adapted to its

function and its activity is dependent on an

optimum temperature and pH. Factor XIII is synthesized by the liver. Activated by thrombin,

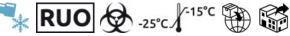
FXIII intervenes in the final phase of

fibrinoformation to stabilize the fibrin clot by forming covalent bonds in the fibrin polymer.

## **Human Factor XIIIa**



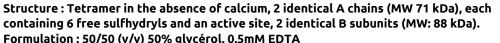








Reference	Presentation	Format
9-HCXIIIA-0165	Vial	50 µg
9-HCXIIIA-0165-1	Vial	1 mg



≈ 900 units/mg MW(Da): 312 000 Extinction coef.: 13.8

Activity determination: photometric determination

Isoelectric point: 5.2.

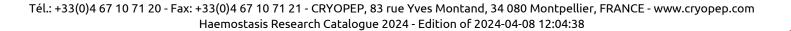


All enzymes are accompanied by product information sheets which describe proper storage conditions. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.





**Plasmin** 

# Human plasmin













Reference	Presentation	Format
9-HCPM-0140	Vial	500 µд
9-HCPM-0140-1	Vial	1 mg



Buffer formulation: 50/50 (v/v) glycérol/H2O

Structure: 2 subunits (molecular weight of heavy chain: 57,000 Da and light chain 26,000). linked by a disulfide bridge, 5 kringles domains, 22 disulfide bridges and an N-terminal lysine.

Molecular weight (Da): 83 000

Extinction coef.: 17

Determination of activity by chromogenic assay.



#### Informations

Mouse plasmin

Associated products

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Plasmin is the active form of plasminogen. It is a serine protease which catalyzes the hydrolysis of the peptide bonds located preferentially after a lysine residue or an arginine residue. It has a greater selectivity than trypsin.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°IC and remain in fluid phase. Temperatures lower than -30°IC should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° [C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Activated protein C (APC)

# Bovine Activated Protein C - blocked active site (DEGR)











Reference	Presentation	Format
9-BCAPC-DEGR	Vial	50 µg

2-chain structure: MW 35 000 and 21 000 Da, Gla domain in N-terminal and 2 EGF domains Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % activity PCa - Active-site blocked

MW(Da): 52 650 Extinction coef.: 13.7

Determination of activity by chromogenic test

Isoelectric point: 4.2-4.5



#### Informations

(DEGR)

Associated products

Human Activated Protein C

Bovine Activated Protein C (APC)

Human Activated Protein C - blocked active site

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa). PCa in the presence of protein S. calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



(DEGR)

Activated protein C (APC)

## Bovine Activated Protein C (APC)











Associated products	Reference	Presentation	Format
Bovine Activated Protein C - blocked active site	9-BCAPC-1080	Vial	50 µg
(DEGR)	9-BCAPC-1080-1	Vial	1 mg

2-chain structure: MW 35 000 and 21 000 Da, Gla domain in N-terminal and 2 EGF domains Formulation 50/50 (v/v) glycerol/H2O

6.0 to 18.5 units/mg MW(Da): 52 650 Extinction coef.: 13.7

Determination of activity by chromogenic test

Isoelectric point: 4.2-4.5



#### Informations

Human Activated Protein C

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa). PCa in the presence of protein S. calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

Human Activated Protein C - blocked active site

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°C and remain in fluid phase. Temperatures lower than -30°C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20°C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Activated protein C (APC)

Bovine Activated Protein C - blocked active site

Human Activated Protein C - blocked active site

## Human Activated Protein C













Reference	Presentation	Format
9-HCAPC-0080	Vial	50 µg
9-HCAPC-0080-1	Vial	1 mg



Determination of activity by chromogenic test

2-chain structure: molecular weight 35 000 and 21 000 Da. Gla domain in N-terminal and 2

**EGF** domains



(DEGR)

(DEGR)

Associated products

Bovine Activated Protein C (APC)

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa). PCa in the presence of protein S. calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

Molecular weight (Da): 56 200 Extinction coef.: 14.5

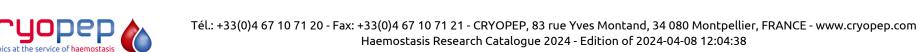
Buffer formulation: 50/50 (v/v) glycérol/H2O

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities Discount according to quantities

## Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°C and remain in fluid phase. Temperatures lower than -30°C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20°C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as boyine serum albumin, poly(ethylene glycol). Prionex or gelatin. Prionex is better than BSA.





Activated protein C (APC)

Bovine Activated Protein C - blocked active site

# Human Activated Protein C - blocked active site (DEGR)











Reference	Presentation	Format
9-HCAPC-DEGR	Vial	50 µg
9-HCAPC-DEGR-1	Vial	1 mg



2-chain structure: MW 35 000 and 21 000 Da, Gla domain in N-terminal and 2 EGF domains Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % activity PCa - Active-site blocked

MW(Da): 56 200 Extinction coef.: 14.5

Determination of activity by chromogenic test

Isoelectric point: 4.2-4.5

### Informations

(DEGR)

Associated products

Bovine Activated Protein C (APC)

Human Activated Protein C

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. PC is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa). PCa in the presence of protein S. calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

### Characteristics



Thrombin (FIIa)

Associated products

# Biotinylated bovine α-thrombin - blocked active site (FPRck)









Reference	Presentation	Format
9-BCT-BFPRCK	Vial	200 µg
9-BCT-BFPRCK-1	Vial	1 mg

Bovine α thrombin - blocked active site (FPRck)

Bovine α thrombin - blocked active site (DFP)

#### Informations

Bovine a thrombin

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

< 1 % thrombin activity - Blocked active site

Structure: MW 6,000 and 31,000 Da 2 subunits Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

MW(Da): 36 700 Extinction coef.: 19.5

Determination of activity by chromogenic test or fibrinogen coagulation.

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Thrombin (FIIa)

Associated products

## Bovine a thrombin











Reference	Presentation	Format
9-BCT-1020	Vial	200 μg
9-BCT-1020-1	Vial	1 mg

Structure: MW 6.000 and 31.000 Da 2 subunits Formulation: 50/50 (v/v) glycerol/H2O

2 900 to 5 400 units/mg MW(Da): 36 700

Extinction coef.: 19.5

Determination of activity by chromogenic test or fibrinogen coagulation.



#### Informations

site (FPRck)

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

Biotinylated bovine α-thrombin - blocked active

Bovine a thrombin - blocked active site (DFP)

Bovine a thrombin - blocked active site (FPRck)

### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

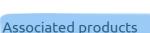
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Thrombin (FIIa)

# Bovine a thrombin - blocked active site (DFP)





Biotinylated bovine  $\alpha$ -thrombin - blocked active site (FPRck)

Bovine a thrombin

Bovine α thrombin - blocked active site (FPRck)

## Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.



Reference	Presentation	Format
9-BCT-DFP	Vial	200 µg
9-BCT-DFP-1	Vial	1 mg

Structure: MW 6,000 and 31,000 Da 2 subunits. Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % thrombin activity - Blocked active site

MW(Da): 36 700 Extinction coef.: 19.5

Determination of activity by chromogenic test or fibrinogen coagulation.



The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Thrombin (FIIa)

Associated products

# Bovine a thrombin - blocked active site (FPRck)











Reference	Presentation	Format
9-BCT-FPRCK	Vial	200 μg
9-BCT-FPRCK-1	Vial	1 mg

Bovine a thrombin

site (FPRck)

Bovine a thrombin - blocked active site (DFP)

Biotinylated bovine α-thrombin - blocked active

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

Formulation: 20 mM HEPES; 150 mM NaCl; pH 7.4

Structure: MW 6,000 and 31,000 Da 2 subunits

< 1 % thrombin activity - Blocked active site

MW(Da): 36 700 Extinction coef.: 19.5

Determination of activity by chromogenic test or fibrinogen coagulation.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

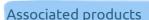
#### Characteristics



Thrombin (FIIa)

## Human gamma-thrombin





Biotinylated b site (FPRck)

Bovine a thrombin

Bovine a thrombin - blocked active site (DFP)

hi-	
povine α-thrombin - blocked active	

## Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and gamma-thrombin is obtained by cleavage of the B2 chain of beta-thrombin at the Lys190-Gly191 position giving the fragments B4 and B5.



Reference	Presentation	Format
9-HCGT-0021	Vial	100 µg
9-HCGT-0021-1	Vial	1 mg

Structure: 4 chains (A, B1, B5 and B4) with a disulfide bridge between peptide A and peptide B5.

Formulation: 100 mM + 0.1% PEG

< 1 % thrombin activity - Blocked active site

MW(Da): 34 300 Extinction coef.: 18.3

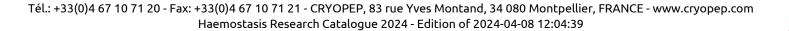
Determination of activity by fibrinogen coagulation test.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics





Thrombin (FIIa)

## Human a thrombin











	Reference	Presentation	Format
	9-HCT-0020	Vial	100 µд
=	9-HCT-0020-1	Vial	1 ma

Bovine a thrombin

site (FPRck)

Associated products

Bovine a thrombin - blocked active site (DFP)

Biotinylated bovine α-thrombin - blocked active

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

Specific activity: 2 800 to 5 400 units/mg

MW(Da): 36 700 Extinction coef.: 18.3

Human α-thrombin

Origine: Human Blood / Plasma Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

Determination of activity by chromogenic test or fibrinogen coagulation.

Structure: PM 6 000 and 31 000 Da 2 subunits.

### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20°C and remain in fluid phase. Temperatures lower than -30°C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20°C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Thrombin (FIIa)

# Human α thrombin - blocked active site (DFP)













Reference	Presentation	Format
9-HCT-DFP	Vial	100 µд
9-HCT-DFP-1	Vial	1 mg



Bovine a thrombin

site (FPRck)

Associated products

Bovine a thrombin - blocked active site (DFP)

Biotinylated bovine α-thrombin - blocked active

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

Structure: PM 6 000 and 31 000 Da 2 subunits.

Origin: Human Blood / Plasma

Formulation: 20 mM Hepes, 150 mM NaCl, pH 7.4

HCT activity < 1 % MW(Da): 36 700 Extinction coef.: 18.3

Determination of activity by chromogenic test or fibrinogen coagulation.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Thrombin (FIIa)

# Human α thrombin - blocked active site (FPRck) -**PPACK**







Structure: PM 6 000 and 31 000 Da 2 subunits.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4





Reference	Presentation	Format
9-HCT-FPRCK	Vial	100 µд
9-HCT-FPRCK-1	Vial	1 mg



Bovine a thrombin

site (FPRck)

Associated products

Bovine a thrombin - blocked active site (DFP)

Biotinylated bovine α-thrombin - blocked active

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

< 1 % thrombin activity

MW(Da): 36 700 Extinction coef.: 18.3

Determination of activity by chromogenic test or fibrinogen coagulation.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Thrombin (FIIa)

# Human α thrombin - blocked active site (FPRck) biotinylated PPACK







Structure: PM 6 000 and 31 000 Da 2 subunits.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4





Reference	Presentation	Format
9-HCT-BFPRCK	Vial	100 µg
9-HCT-BFPRCK-1	Vial	1 mg



Bovine a thrombin

site (FPRck)

Associated products

Bovine a thrombin - blocked active site (DFP)

Biotinylated bovine α-thrombin - blocked active

#### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Thrombin is the active form of prothrombin (FII). During coagulation, thrombin cleaves fibrinogen into fibrin to form the clot. Thrombin is also responsible for the feedback activation of FV and FVIII cofactors. Thrombin also activates FXIII and platelets.

< 1 % thrombin activity

MW(Da): 36 700 Extinction coef.: 18.3

Determination of activity by chromogenic test or fibrinogen coagulation.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Thrombin (FIIa)

## Human & thrombin





Biotinylated bovine  $\alpha$ -thrombin - blocked active site (FPRck)

Bovine a thrombin

Bovine a thrombin - blocked active site (DFP)



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. Beta-thrombin is obtained by cleavage of alpha-thrombin by cleaving the intact B chain at the Arg106 and tyr 107 bond to produce the B1 and B2 fragments.



Reference	Presentation	Format
9-HCBT-0022	Vial	100 µg
9-HCBT-0022-1	Vial	1 mg

Structure: MW 6,000 and 31,000 Da 2 subunits

Formulation: 10 mM sodium phosphate, 0.3 M NaCl, pH 6.5

< 5 % thrombin activity - Blocked active site

MW(Da): 35 400 Extinction coef.: 18.3

Determination of activity by chromogenic test or fibrinogen coagulation.

### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics



Factor VIIa

Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product.

Each enzyme has a structure adapted to its

function and its activity is dependent on an

optimum temperature and pH. Factor VII (FVII) is a glycoprotein synthesized by the liver, vitamin k

dependent. When tissue factor (TF) appears on the surface of damaged, abnormal or activated vascular

endothelium, FVIIa associates with it, initiating the

extrinsic pathway of coagulation. The FT-FVIIa complex activates the FX in FXa and the FIX in FIXa.

## Human FVIIa











Reference	Presentation	Format
9-HCVIIA-0031	Vial	20 µg
9-HCVIIA-0031-1	Vial	1 mg



Structure: 2 subunits with N-terminal end derived from light chains (MW = 20 000), COOH end derived from heavy chains (MW = 30 000), Gla domain in N-terminal and 2 EGF domains.

Formulation: 50/50 (v/v) glvcérol/H2O

12 000 to 36 000 units/mg

MW(Da): 50 000 Extinction coef.: 13.9

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with alvcerol/H2O should be stored at -20° □C and remain in fluid phase. Temperatures lower than -30° □C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° \( \text{C} \) and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as boyine serum albumin, poly(ethylene glycol). Prionex or gelatin. Prionex is better than BSA.



### **Kallikrein**

Informations

Kallikrein is a glycoprotein derived from

prekallikrein. It is non-covalently complexed to the high molecular weight kininogen. FXIIa activates

the transformation of prekallikrein into kallikrein which will activate FXII and hydrolyze KHPM into

several fragments. In fibrinolysis, kallikrein is also

able to activate pro-urokinase to urokinase.

## Human kallikrein







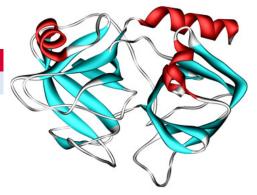




Reference	Presentation	Format
11-473	Vial	1 mg

Structure: 52 kDa heavy chain and a 33 kDa light chain linked by disulfide bridges. Formulation: 1mg in a buffer composed of 4mM sodium acetate / hydrochloride, 150mM NaCl. pH 5.3

MW(Da): 85 000 Coef. Extinction: 1.17



#### Characteristics

All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions. In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed. Avoid freezing and thawing cycles.

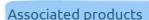




Factor IXa

## **Bovine Factor IXa**





Bovine Factor IXa - blocked active site (DEGRck)

Bovine Factor IXa - blocked active site (EGRck)

Human Factor IXa



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.



Reference	Presentation	Format
9-BCIXA-1050	Vial	100 µg
9-BCIXA-1050-1	Vial	1 mg

Structure: 2 subunits (MW(Da): 28 000 & 17 000 ), Gla domain in terminal NH2 and 2 EGF

domains.

Formulation: 50/50 (v/v) glycérol/H2O

930 to 2 560 units/mg MW(Da) : 45 000 Extinction coef. : 14.0

Determination of activity by a FIX coagulation test.

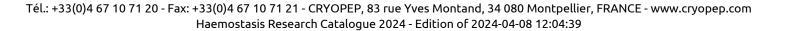


The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20° C and remain in fluid phase. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.





Factor IXa

# Bovine Factor IXa - blocked active site (DEGRck)











Reference	Presentation	Format
9-BCIXA-DEGR	Vial	100 µg
9-BCIXA-DEGR-1	Vial	1 mg



< 1 % activity IXa - Active-site blocked MW(Da): 45 000 Extinction coef.: 14 Structure: 2 subunits (MW(Da): 28 000 & 17 000), Gla domain in terminal NH2 and 2 EGF domains. Determination of activity by a FIX coagulation test.



### Informations

Bovine Factor IXa

Human Factor IXa

Associated products

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH.

Bovine Factor IXa - blocked active site (EGRck)

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B. DEGRck: Dansyl-EGRck (dansyl-Glu-Gly-Arg chloromethyl ketone): 642.1 g/mol

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

#### Characteristics

All enzymes are accompanied by certificates of analysis which describe the appropriate storage conditions. Brief centrifugation of the enzymes in their original packaging will completely recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin. Prionex replaces BSA very advantageously.



Factor IXa

# Bovine Factor IXa - blocked active site (EGRck)











Reference	Presentation	Format
9-BCIXA-EGR	Vial	100 µд
9-BCIXA-EGR-1	Vial	1 mg



< 1 % activity IXa - Active-site blocked MW(Da): 45 000 Extinction coef.: 14 Structure: 2 subunits (MW(Da): 28 000 & 17 000), Gla domain in terminal NH2 and 2 EGF domains. Determination of activity by a FIX coagulation test.



### Informations

Bovine Factor IXa

Human Factor IXa

Associated products

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH.

Bovine Factor IXa - blocked active site (DEGRck)

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B. EGRck :Glu-Gly-Arg chloromethyl ketone. PM: 466 g/mol

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery Delivery in large quantities Discount according to quantities

#### Characteristics

All enzymes are accompanied by certificates of analysis which describe the appropriate storage conditions. Brief centrifugation of the enzymes in their original packaging will completely recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin. Prionex replaces BSA very advantageously.



Factor IXa

## **Human Factor IXa**



## Associated products

Bovine Factor IXa

Bovine Factor IXa - blocked active site (DEGRck)

Bovine Factor IXa - blocked active site (EGRck)



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.



Reference	Presentation	Format
9-HCIXA-0050	Vial	100 µg
9-HCIXA-0050-1	Vial	1 mg

Origin: Human Blood / Plasma

Buffer formulation: 50/50 (v/v) glycérol/H2O

Structure: 2 subunits (Molecular weight: 28 000 & 17 000 Da), Gla domain in terminal NH2

and 2 EGF domains.

Molecular weight (Da): 45 000

Extinction coef.: 14.0

Determination of activity by a Factor IX clotting assay

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by certificates of analysis which describe the appropriate storage conditions. Brief centrifugation of the enzymes in their original packaging will completely recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin. Prionex replaces BSA very advantageously.



Factor IXa

# Human Factor IXa - blocked active site (DEGRck)





Bovine Factor IXa

Bovine Factor IXa - blocked active site (DEGRck)

Bovine Factor IXa - blocked active site (EGRck)



An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH.

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B. DEGRck: Dansyl-EGRck (dansyl-Glu-Gly-Arg chloromethyl ketone): 642.1 g/mol



Reference	Presentation	Format
9-HCIXA-DEGR	Vial	100 µg
9-HCIXA-DEGR-1	Vial	1 mg

Structure: 2 subunits (MW(Da): 28 000 & 17 000 ), Gla domain in terminal NH2 and 2 EGF

domains.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % activity IXa - Active-site blocked

MW(Da): 45 000 Extinction coef.: 14

Determination of activity by a FIX coagulation test.

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by certificates of analysis which describe the appropriate storage conditions. Brief centrifugation of the enzymes in their original packaging will completely recover the sample at the bottom of the tube. Never allow protein solutions to stay at room temperature for excessive periods of time. High temperatures can increase the rate of protein degradation. Avoid storing or maintaining diluted protein samples for an extended period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are "clingy" by nature. To avoid protein loss due to adsorption, extremely diluted protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, Prionex or gelatin. Prionex replaces BSA very advantageously.



Factor IXa

## Human Factor IXa - blocked active site (EGRck)





Human Factor XIa - blocked active site (EGRck)

Bovine Factor IXa - blocked active site (DEGRck)

Bovine Factor IXa - blocked active site (EGRck)

### Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH.

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B. EGRck: Glu-Gly-Arg chloromethyl ketone. MW: 466 g/mol



Reference	Presentation	Format
9-HCIXA-EGR	Vial	100 µg
9-HCIXA-EGR-1	Vial	1 mg

Structure: 2 subunits (MW(Da): 28 000 & 17 000 ), Gla domain in terminal NH2 and 2 EGF

domains.

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

< 1 % activity IXa - Active-site blocked

MW(Da): 45 000 Extinction coef.: 14

Determination of activity by a FIX coagulation test.

## Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from deliver. Delivery in large quantities. Discount according to quantities.

#### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20° C and remain in fluid phase. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Factor IXa

## Rat Factor IXa



## Associated products

Bovine Factor IXa

Bovine Factor IXa - blocked active site (DEGRck)

Bovine Factor IXa - blocked active site (EGRck)

## Informations

An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. An enzyme is a protein that catalyzes a biochemical reaction. It converts a substrate into a product. Each enzyme has a structure adapted to its function and its activity is dependent on an optimum temperature and pH. FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.



Reference	Presentation	Format
9-RATIXA-9050	Vial	50 µg
9-RATIXA-9050-1	Vial	1 mg

Structure: 2 subunits (MW(Da): 28 000 & 17 000 ), Gla domain in terminal NH2 and 2 EGF

domains.

Formulation: 50/50 (v/v) glycérol/H2O

MW(Da): 45 000 Extinction coef.: 14.0

Determination of activity by a FIX coagulation test.

Product manufactured only on request with minimum order quantity

#### Advantages

The vast majority of enzymes is pure (without additives) with > 95% purity SDS-PAGE. Expiration date of one year from delivery. Delivery in large quantities. Discount according to quantities.

### Characteristics

All enzymes are accompanied by product information sheets which describe proper storage conditions. All products which are formulated with either glycerol/H2O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. All products which are formulated with glycerol/H2O should be stored at -20° C and remain in fluid phase. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, poly(ethylene glycol), Prionex or gelatin. Prionex is better than BSA.



Reference	Designation Click to go to the product sheet	PM (g/mol)	Activity	WEB
Natural protease in	hibitors			
6-INH-APROT-2	→ Aprotinin concentrate liquid			•
8-381-01	→ Pefabloc® TH (αNAPAP)	581.7		•
9-ANG-01	→ Human angiostatin	≈ 50 000		•
9-HCATIII-0120	→ Human antithrombin	58 000	0.7 à 1.0 moles	•
6-ATIII-10	→ Human antithrombin (AT)	58 000	10 UI/mL	•
6-INH-APROT-1	→ Concentrated Lyophilized Aprotinin		≥ 3.0 PEU/mg	•
9-HCII-0190	→ Human heparin Cofactor II	65 600		•
9-HA2AP-0230	$\rightarrow$ Human $\alpha$ -2 Antiplasmin	58700		•
9-CTI-01	→ Corn trypsin inhibitor	12 500		•
6-H7035-P01	→ Recombinant tissue Factor pathway inhibitor (TFPI)	34 300		•
9-HCPZ-0220	→ Human protein Z	62 000		•
6-INH-HIR-2000	→ r-Hirudin	6 935.5		•
9-TAFI-01	→ Human TAFI	60 000	2.0 à 9.2 unités/mg	•
Synthetic irreversib	le inhibitors			
9-BEGRCK-06	→ Biotinylated EGR-chloromethylketone	882		•
9-BFPRCK-06	→ Biotinylated FPR chloromethylketone	940		•
9-EGRCK-01	→ EGR-chloromethylketone (GGACK)	466		•
9-FEGRCK-06	→ Fluorescein-EGR chloromethylketone	788		•
9-FPRCK-01	→ FPR-chloromethylketone (PPACK)	524.2		•
9-FFPRCK-06	→ Fluorescein-FPR-chloromethylketone	846		



Reference	Designation Click to go to the product she	eet PM (g/mol)	Activity	WEB
6-INH-SC-5	→ Pepbloc AEBSF	239.7		•
Synthetic reversible	e inhibitors			
8-099-11	→ Pefabloc® FG	485.5		
9-DAPA	→ DAPA	539		•
6-INH-FG-50	→ PEPBLOC FG	485.5		•
6-INH-NAPAP-5	→ Pepbloc NAPAP	581.7		•



Associated products

Human antithrombin (AT)

Aprotinin concentrated solution

Aprotinin Powder, Lyophilized 1Mio / KI

Natural protease inhibitors

# Aprotinin concentrate liquid







RUU 2°C

Reference	Presentation	Format
6-INH-APROT-2	Vial	1 x 50 mL

Price according to Million KIU.

#### Informations

Aprotinin is a versatile reversible inhibitor of protease serines (trypsin, plasmin, u-PA, chymotrypsin, kallikreine, elastase...).

Aprotinin is used in chromogenic assays for the determination of antithrombin, heparin, a2-macroglobulin, FXa and thrombin to inhibit the unwanted activities of kallikrein or plasmin.

#### Advantages

Glass bottle or cryotube packaging. All the references benefit from decreasing prices according to the quantities ordered.

## Characteristics

We offer a selection of benzamidine-derived inhibitors. They can help in the characterization of trypsin-type enzymes.

Most inhibitors have a selective inhibition on the activity of certain trypsin proteases of physiological interest. However, each inhibitor may have a characteristic action on other protease serines.





## Natural protease inhibitors

## Pefabloc® TH (aNAPAP)







Reference	Presentation	Format
8-381-01	Vial	1 x 5 mg

Formulation:  $N-\alpha$ -(2-naphthylsulfonylglycyl)-4-amidino-(D, L)-phénylananin pipéridid acétate (NAPAP)

Formulation : C<sub>27</sub>H<sub>31</sub>O<sub>4</sub>N<sub>5</sub>S, AcOH

MW (Da): 581.7

Pefabloc® TH (NAPAP) is one of the most potent and selective competitive thrombin inhibitors.

## Associated products

Aprotinin concentrate liquid

Aprotinin concentrated solution

Human angiostatin

### Informations

Protease inhibitors greatly facilitate the detection and determination of proteases, the study of their interactions with their substrates or effectors, and the investigation of the physiological roles of enzymes.

Synthetic low molecular weight inhibitors are particularly useful and are used for the purification of proteins, for the characterization of proteases and also for the suppression of unwanted catalytic activity.

Binding an inhibitor may prevent a substrate from binding to the active site of the enzyme and/or the enzyme from catalyzing its reaction. This inhibition can be reversible or irreversible. Irreversible inhibitors usually react with the enzyme and modify it chemically. They bind covalently and modify key amino acid residues necessary for enzymatic activity.

Conversely, reversible inhibitors bind in a non-ccovalent manner and different types of inhibitions result depending on whether these inhibitors bind the enzyme, enzyme-substrate complex (ES) or both.

## Advantages

Inserts and certificates of analysis provided. Safety Data Sheets (SDS) provided. Prolonged stability after reconstitution (> 3 months).

## Characteristics

Pefabloc® TH can be used in diagnostic systems, analytical applications, research and industrial purification processes to exclude unwanted thrombin activity.

It can also be used as a powerful anticoagulant in in vitro testing systems.





Natural protease inhibitors

# Human angiostatin











## Associated products

Human antithrombin Mouse antithrombin Human antithrombin (AT)

### Informations

Angiostatin is a single chain proteolytic fragment of glu-plasminogen. It is a powerful inhibitor of angiogenesis. The N-terminal domain of this fragment is identical to human glu-plasminogen.

Reference	Presentation	Format
9-ANG-01	Vial	500 µg
9-ANG-01-1	Vial	1 mg

Formulation: 20 mM HEPES, 0.15 M NaCl, pH 7.4

Inhibits the proliferation of endothelial cells MW(Da): ≈ 50 000

Extinction coef.: 17.4

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics

Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.





Accociated products

Human antithrombin (AT)

## Natural protease inhibitors

## Human antithrombin











Associated products	The second secon
	9-⊦
Human angiostatin	
Mouse antithrombin	Formulati

## Informations

Antithrombin is a glycoprotein of the serpin family, synthesized by the liver with a half-life of 3 days. It is the most potent of the physiological inhibitors of coagulation. It mainly inhibits thrombin but also at a lower level FIXa, FXa, FXIa. Its inhibitory action is amplified in the presence of heparin or heparan sulfate.

Reference	Presentation	Format
9-HCATIII-0120	Vial	1 mg

#### ion : 50/50 (v/v) glycerol/H₂O

Inactivates several serine proteinases Activity: 0.7 to 1.0 mole thrombin / mole AT

MW(Da): 58 000 Extinction coef.: 14.5 Isoelectric point: 4.9-5.3

Structure: single chain, 3 intrachain disulfide bonds, 10% alpha-helise, 30-40% structure-beta,

50% random coil, scissile bond (Arg 385-Ser 386)

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics

Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.







Associated products

Natural protease inhibitors

# Human antithrombin (AT)







, issued products	
Human angiostatin	
Human antithrombin	
Mouse antithrombin	

## Informations

Antithrombin is a glycoprotein of the serpin family, synthesized by the liver with a half-life of 3 days. It is the most potent of the physiological inhibitors of coagulation. It mainly inhibits thrombin but also at a lower level FIXa, FXa, FXIa. Its inhibitory action is amplified in the presence of heparin or heparan sulfate.

Reference	Presentation	Format
6-ATIII-10	Vial	1,5 mg

#### Formulation: tampon/NaCl

Inactivates several serine proteinases

Activity: 10 UI/mL MW(Da): 58 000

#### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

#### Characteristics

We offer a selection of inhibitors derived from benzamidine. They can help in the characterization of trypsin-like enzymes. Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.





Natural protease inhibitors

# **Concentrated Lyophilized Aprotinin**

**Format** 

1 g







Presentation

Vial

Associated products	Reference
	6-INH-APROT-1

Formulation: 0.12mg/mg NaCl, pH 6.0 ± 1

Activity: ≥ 3.0 PEU/mg

(1PEU = 1.5 TIU (trypsin inhibitor unit)

Price according to the Million KIU.

ŀ	٩S	SC	CI	at	.e	D	рг	O	a۱	JC	CS

Human angiostatin Human antithrombin Mouse antithrombin

#### Informations

Aprotinin is a polyvalent reversible inhibitor of serine proteinases (trypsine, u-PA, chymotrypsin, kallikrein, elastase...). Aprotinin is used in chromogenic assays for the determination of antithrombin III, heparin, a2-macroglobulin, FXa and thrombin to inhibit disturbing kallikrein or plasmin activities.

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

### Characteristics

We offer a selection of inhibitors derived from benzamidine. They can help in the characterization of trypsin-like enzymes. Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.





Associated products

Human angiostatin Human antithrombin Mouse antithrombin

Informations

## Natural protease inhibitors

The second heparin cofactor is a serine protease

inhibitor. It inhibits thrombin, chymotrypsin and other enzymes of the same group. Its rate of

inhibition is amplified in the presence of heparin.

# **Human heparin Cofactor II**











Reference	Presentation	Format
9-HCII-0190	Vial	100 µg
9-HCII-0190-1	Vial	1 mg



Activity: 700 to 1800 units/mg

MW(Da): 65 600 Extinction coef.: 5.93

Inhibits thrombin, α-chymotrypsin, Cathepsin G, Streptomyces griseus protease B

Isoelectric point: 4.95-5.15

Structure: single chain glycoprotein, 3 potential chains of N-glycosylation, 2 repeated residues

of 7 amino acids, reactive site (TVTTVGFMPL-STQVRFTVDR)



Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

#### Characteristics

Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.







Natural protease inhibitors

# Human α-2 Antiplasmin











Human angiostatin Human antithrombin

Mouse antithrombin



## Informations

Physiological inhibitor of plasmin by forming an irreversible complex on its catalytic site; prevents the binding of plasmin to fibrin.

The  $\alpha$ -2 plasmin inhibitor is a single chain glycoprotein and is one of the major serine proteases circulating in plasma. It mainly inhibits plasmin and therefore plays an important role in the specific inhibition of fibrinolysis.

Reference	Presentation	Format
9-HA2AP-0230	Vial	100 µg
9-HA2AP-0230-1	Vial	1 mg

Human  $\alpha$ -2 plasmin inhibitor.

Formulation: 50 mM KPO4, 7.5 mM KCl, 75 µM EDTA, pH 7.4

MW(Da): 58 700 Extinction coef.: 7.03 Concentration: 5.0 mg/mL

Specific activity: 1.3 mol HA2AP / 1 mol Plasmin Structure: single chain molecule with 452 amino acids.



Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics







Natural protease inhibitors

# Corn trypsin inhibitor





Associated products	
Human angiostatin	
Human antithrombin	For
Mouse antithrombin	

### Informations

CTI is a small protein found in the kernels of most varieties of corn. CTI is not only an inhibitor of trypsin but also of human FXIIa observed in blood coagulation experiments. The inhibitor forms an equimolar complex with either trypsin or FXIIa and when added to plasma prolongs aPTT without affecting PT experiences.

Reference	Presentation	Format
9-CTI-01	Vial	1 mg

Formulation du tampon: 20 mM Tris, 150 mM NaCl, pH 7.4

Inhibits trypsin and human FXIIa Molecular Weight (Da): 12 500 Extinction coef.: 20.0

Structure: single chain of proteins comprising 112 amino acids.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics

We offer a selection of inhibitors derived from benzamidine. They can help in the characterization of trypsin-like enzymes. Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.





## Natural protease inhibitors

# Recombinant tissue Factor pathway inhibitor (TFPI)













Asso	ciated	prod	lucts

Human angiostatin Human antithrombin Mouse antithrombin

## Informations

TFPI is an anticoagulant protein produced by the endothelial cell and found on its surface. Its role is to inhibit the early phases of coagulation by blocking the FT-FVIIa complex as well as the Fxa.

Tissue Factor Pathway Inhibitor (TFPI) produced in E.coli is a single, non-glycosylated polypeptide chain containing 299 amino acids (29-304) and having a molecular mass of 34.3kDa.

TFPI is fused to a 23 amino acid His-tag at N-terminus & purified proprietary chromatographic techniques.

Reference	Presentation	Format
6-H7035-P01	Vial	5 μg
6-H7035-P01-50	Vial	50 μg

Formulation: Sterile filtered colorless solution (1mg/ml) in 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea, 10% glycerol.

Inhibits the FVIIa and tissue Factor in the complexe Xa/TFPI/FVIIa/TF MW(Da): 34 300

#### Characteristics

We offer a selection of inhibitors derived from benzamidine. They can help in the characterization of trypsin-like enzymes. Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.

Store at +2°C/+8°C if entire vial will be used within 2-4 weeks. Store, frozen at -25°C/-15°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Purity > 85.0% as determined by SDS-PAGE.

Avoid multiple freeze-thaw cycles.



Associated products

## Natural protease inhibitors

# Human protein Z











Reference	Presentation	Format
9-HCPZ-0220	Vial	100 µg
9-HCPZ-0220-1	Vial	1 mg

Formulation: 50/50 (v/v) glycerol/H<sub>2</sub>O

MW(Da): 62 000 Extinction coef.: 12.0

Structure: single chain, structural similarity to other vitamin K dependent coagulation factors.



Informations

Human angiostatin Human antithrombin Mouse antithrombin

Protein Z is a single chain vitamin K dependent protein produced by the liver. The protein contains an N-terminal Gla region important for its ability to bind to membrane phospholipids. Protein Z forms a complex with FXa, it has a role of low molecular weight heparin naurelle Protein Z is a coFactor of ZPI (protein Z-related protease inhibitor) for the inhibition of FXa. This reaction is accelerated 1000 times in the presence of PZ, phospholipids and Ca2+.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics







Associated products

## Natural protease inhibitors

## r-Hirudin







RUU	2°C.	1007	

Reference	Presentation	Format
6-INH-HIR-2000	Vial	2 000 ATU

This recombinant protein is the most potent and specific thrombin inhibitor known.

Formula: C287H440N80O110S6 Molecular weight: 6 963.5 g/mol

### Informations

Human angiostatin Human antithrombin

Mouse antithrombin

Hirudin is the most potent and specific thrombin inhibitor known. It forms a stable equimolar complex with thrombin. The complete structure of hirudin has been elucidated [Dodt et al., 1984] and a gene coding for hirudin was subsequently synthesized and expressed in yeast [Meyhack et al., 1987].

r-Hirudin amino acid sequence corresponds to natural hirudin of the variant HV-I except for tyrosine 63 which lacks the sulphate group.

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics

Hirudin can be utilised for many analytical and preparative purposes in hemostaseological test procedures as well as in blood and plasma fractionation to prevent the multiple enzymatic and non-enzymatic actions of thrombin. Hirudin may be added to test mixtures to exclude undesired thrombin actions due to contaminations of reagents with prothrombin or with prothrombin activators. Hirudin is used to selectively inhibit thrombin in certain assay conditions when cross-reactivity of thrombin and the chosen enzyme should lead to cleavage of the same chromogenic substrate.





Natural protease inhibitors

## **Human TAFI**







Reference	Presentation	Format
9-TAFI-01	Vial	50 µg
9-TAFI-01-1	Vial	1 mg

Formulation: 20 mM HEPES, 150 mM NaCl, pH 7.4

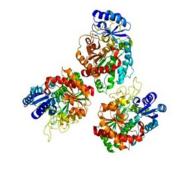
Activity: 2.0 to 9.2 units/mg MW(Da): 60 000 Extinction coef.: 14.9 (calculated by cDNA) Isoelectric point: 5.0 Structure: 92 amino acids single chain glycoprotein. N-terminal activation peptide, catalytic domain of 309 amino acids.



Frozen product.
Expiry date 1 year.
Plastic tubes.
Discount according to quantities.

### Characteristics

Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.





# Informations

Human angiostatin
Human antithrombin
Mouse antithrombin

Associated products

After activation by thrombin, the mature protein negatively regulates fibrinolysis by removing plasminogen binding sites to fibrin. TAFI (Thrombin Activatable Fibrinolysis Inhibitor) is a single chain glycoprotein synthesized by the liver and circulating at a plasma concentration of 50 nM. Thrombin cleaves the zymogen and releases the 92 amino acids activating peptide containing 4 N-glycosylation sites and the plamsinogen recognition site. TAFI plays an important role in the interaction between the fibrinolytic, anticoagulant and procoagulant systems.



Synthetic irreversible inhibitors

# Biotinylated EGR-chloromethylketone







Reference	Presentation	Format
9-BEGRCK-06	Vial	1 mg

### Formulation: 10 mM HCl

MW(Da): 882

BEGRck: Biotinylated Glu-Gly-Arg-chloromethylketone which rapidly inhibits FXa. They are often used during protein purification to inhibit the activity of serine proteases and prevent the conversion of zymogens to active proteins.

## Fluorescein-EGR chloromethylketone

Informations

Associated products

Biotinylated FPR chloromethylketone EGR-chloromethylketone (GGACK)

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors.

In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases.

Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

Biotinylation allows the peptides to be used as specific probes for the detection and / or capture of serine protease via an avidin / biotin interaction.

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Associated products

Biotinylated EGR-chloromethylketone EGR-chloromethylketone (GGACK)

Fluorescein-EGR chloromethylketone

Synthetic irreversible inhibitors

# Biotinylated FPR chloromethylketone







Reference	Presentation	Format
9-BFPRCK-06	Vial	1 mg

#### Formulation: 10 mM HCl

MW(Da): 940 BFPRck: Biotinylated phe-Pro-Arg-chloromethylketone which rapidly inhibits thrombin. They are often used during protein purification to inhibit serine protease activity and prevent the conversion of zymogens to active proteins.

### Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors. Biotinylation allows the peptides to be used as specific probes for the detection and / or capture of serine protease via an avidin / biotin interaction.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Associated products

Biotinylated EGR-chloromethylketone

Biotinylated FPR chloromethylketone Fluorescein-EGR chloromethylketone

Synthetic irreversible inhibitors

# EGR-chloromethylketone (GGACK)







Reference	Presentation	Format
9-EGRCK-01	Vial	5 mg

### Formulation: H-Glu-Gly-Arg-chloromethylketone

MW(Da): 466 EGR chloromethylketone (GGACK) and FPR chloromethylketone (PPACK) irreversibly inhibit various serine protease.

PPACK is a rapid thrombin inhibitor and GGACK is a rapid FXa inhibitor.

## Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors. Biotinylation allows the peptides to be used as specific probes for the detection and / or capture of serine protease via an avidin / biotin interaction.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Associated products

Biotinylated EGR-chloromethylketone Biotinylated FPR chloromethylketone

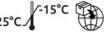
EGR-chloromethylketone (GGACK)

Synthetic irreversible inhibitors

# Fluorescein-EGR chloromethylketone











Reference	Presentation	Format
9-FEGRCK-06	Vial	1 mg

#### Formulation: DMSO C2H6OS

MW(Da): 788

EGRck: Glu-Gly-Arg-chloromethyl ketone which rapidly inhibits FXa. They are often used during protein purification to inhibit the activity of serine proteases and prevent the conversion of zymogens to active proteins.



### Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Synthetic irreversible inhibitors

# FPR-chloromethylketone (PPACK)









Associated products	Reference	Presentation	Format
Biotinylated EGR-chloromethylketone	9-FPRCK-01	Vial	5 mg
Bi di da de la	9-FPRCK-01-100	Vial	100 mg

## Formulation: H-(D)-Phe-Pro-Arg-chloromethylketone. 2 HCl

Molecular Weight (Da): 524.2 EGR chloromethylketone (GGACK) and FPR chloromethylketone (PPACK) irreversibly inhibit various serine protease. PPACK is a rapid thrombin inhibitor and GGACK is a rapid FXa inhibitor.

### Informations

Biotinylated FPR chloromethylketone EGR-chloromethylketone (GGACK)

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Associated products

Biotinylated EGR-chloromethylketone Biotinylated FPR chloromethylketone

EGR-chloromethylketone (GGACK)

Synthetic irreversible inhibitors

# Fluorescein-FPR-chloromethylketone











Reference	Presentation	Format
9-FFPRCK-06	Vial	1 mg

Formulation: DMSO C2H6OS

MW(Da): 788

FPRck: Phe-Pro-Arg-chloromethyl ketone which rapidly inhibits thrombin. They are often used during protein purification to inhibit the activity of serine proteases and prevent the conversion of zymogens to active proteins.



### Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

### Characteristics





Associated products

Biotinylated EGR-chloromethylketone

Biotinylated FPR chloromethylketone EGR-chloromethylketone (GGACK)

Synthetic irreversible inhibitors

## Pepbloc AEBSF

mat







Reference	Presentation	Format
6-INH-SC-5	Vial	5 mg

### Formulation: chlorhydrate de 4-(2-aminoéthyl)-benzènesulfonatylfluorure (AEBSF)

PEPBLOC AEBSF is an irreversible proteinase inhibitor with a broad specificity for serum protease.

It is suitable for downstream biopharmaceutical purification due to its superior solubility, stability, inhibitory activity and low toxicity.

#### MW(Da): 239.7

## Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

### Characteristics

Pepbloc AEBSF is an irreversible proteinase inhibitor with broad specificity for serine proteinases. It is suitable for biopharmaceutical downstream purification because of its superior solubility, stability, inhibitory activity and low toxicity. Most inhibitors exhibit a selective inhibitory activity on certain trypsin-like proteinases of physiological relevance. However, each inhibitor will of course display a characteristic action on others serines proteinases.





Associated products

## Synthetic reversible inhibitors

## Pefabloc® FG







Reference	Presentation	Format
8-099-01	Vial	1 g
8-099-11	Vial	3 x 50 mg

### Formulation: H-Gly-Pro-Arg-Pro-OH, AcOH

MW (g/mol): 485.5

Pepbloc FG binds to fibrinogen to inhibit the polymerization of the fibrin network, disrupting the mechanical properties of the clot.

Inhibits fibrino-formation and turbidity of fibrin network (e.g. TGT)

### Informations

DAPA
PEPBLOC FG
Pepbloc NAPAP

Protease inhibitors greatly facilitate the detection and determination of proteases, the study of their interactions with their substrates or effectors, and the investigation of the physiological roles of enzymes.

Synthetic low molecular weight inhibitors are particularly useful and are used for the purification of proteins, for the characterization of proteases and also for the suppression of unwanted catalytic activity.

Binding an inhibitor may prevent a substrate from binding to the active site of the enzyme and/or the enzyme from catalyzing its reaction. This inhibition can be reversible or irreversible. Irreversible inhibitors usually react with the enzyme and modify it chemically. They bind covalently and modify key amino acid residues necessary for enzymatic activity.

Conversely, reversible inhibitors bind in a non-ccovalent manner and different types of inhibitions result depending on whether these inhibitors bind the enzyme, enzyme-substrate complex (ES) or both.

## Advantages

Inserts and certificates of analysis provided. Safety Data Sheets (SDS) provided. Prolonged stability after reconstitution (> 3 months).

## Characteristics

Most inhibitors have a selective inhibition on the activity of certain trypsin proteases of physiological interest. However, each inhibitor may have a characteristic action on other protease serines.





Synthetic reversible inhibitors

## **DAPA**







PEPBLOC FG

Pepbloc NAPAP

## Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors.

In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases.

Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

Reference	Presentation	Format
9-DAPA	Vial	1 mg

Formulation: Dansylarginin, N-(3-ethyl-1.5-pentanediyl)amid, HCl C25H39O3N6SCl

MW(Da): 539

Extinction coef.: 4010

Potent and specific synthetic thrombin inhibitor. (Ki=10-7M). Bound to thrombin, le

fluorescence intensity increase 3 fold.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

### Characteristics

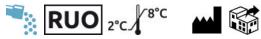




Synthetic reversible inhibitors

## **PEPBLOC FG**







Accociated	products	
Associated	products	

DAPA

Pepbloc NAPAP

## Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful.

They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity.

Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

Reference	Presentation	Format
6-INH-FG-50	Vial	1 x 50 mg

Fibrin polymerization inhibitor

Formulation: H-Gly-Pro-Arg-Pro-OH; AcOH

Chemical structure: C<sub>18</sub>H<sub>31</sub>N<sub>7</sub>O<sub>5</sub>, C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>

Molecular Weight: 485.5 g/mol

Pepbloc FG binds to fibrinogen to inhibit polymerization of the fibrin network, thereby disrupting the mechanical properties of the clot. Inhibits fibrin formation and turbidity of the

fibrin network.

Pepbloc FG is also used to inhibit fibrin formation during purification and processing of clotting factors and other plasma proteins.

## Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Synthetic reversible inhibitors

# **Pepbloc NAPAP**

Format

5 mg





6-INH-NAPAP-5



: KOO 267	
Reference	Presentation

Formulation: N-α-(2-naphthylsulfonylglycyl)-4-amidino-(D, L)-phénylananin pipéridid acétate (NAPAP)

Vial

MW(Da): 581.7

Potent and selective competitive inhibitors of thrombin.

## Associated products

DAPA

PEPBLOC FG

### Informations

Detection and determination of proteinases, studies on their interactions with substrates and effectors and the investigation of their physiological role are greatly facilitated by the use of proteinase inhibitors. In this context, especially synthetic, low-molecular weight inhibitors of different selectivity are very useful. They are widely applied during purification and characterization of proteinases. Furthermore, synthetic inhibitors are useful tools for suppression of undesired proteolytic activity. Depending upon the manner in which the inhibitor is attached to the enzyme, one distinguishes reversible and irreversible inhibitors.

### Advantages

Supplied lyophilized or frozen. Expiry date > 1 year. Glass vial or plastic tubes. Discount according to quantities.

## Characteristics





Reference	Designation Click to go to the product sheet	WEB
Immunodepleted de		
6-FDPA2AP-10	ightarrow a2-Antiplasmin Immunodepleted Deficient Human Plasma	₩
6-FDPAT-10	→ Antithrombin Immunodepleted Deficient Human Plasma	
6-FDPATHCFII-10	→ Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma	₩
6-FDPFIB-10	→ Fibrinogen Immunodepleted Deficient Human Plasma	
6-FDPFII-10	→ FII Immunodepleted Deficient Human Plasma	•
6-FDPFIX-10	→ FIX Immunodepleted Deficient Human Plasma	
6-FDPFV-10	→ FV Immunodepleted Deficient Human Plasma	
6-FDPFVII-10	→ FVII Immunodepleted Deficient Human Plasma	
6-FDPFVIII-10	→ FVIII Immunodepleted Deficient Human Plasma	
6-FDPFVIII-VWF	ightarrow FVIII Immunodepleted Deficient Human Plasma with VWF	•
6-FDPFX-10	→ FX Immunodepleted Deficient Human Plasma	•
6-FDPFXI-10	→ FXI Immunodepleted Deficient Human Plasma	
6-FDPFXII-10	→ FXII Immunodepleted Deficient Human Plasma	
6-FDPFXIII-10	→ FXIII Immunodepleted Deficient Human Plasma	
6-FDPHCII-10	→ Heparin Cofactor II Immunodepleted Deficient Human Plasma	•
6-FDPKIN-10	→ Kininogen Immunodepleted Deficient Human Plasma	<b>**</b>
6-FDPPAI-10	→ PAI-1 Immunodepleted Deficient Human Plasma	<b>**</b>
6-FDPB2GP1-10	→ B2GP1 Immunodepleted Deficient Human Plasma	•
6-FDPPK-10	→ Prekallikrein Immunodepleted Deficient Human Plasma	•
9-FVIII-CD	→ Plasma Factor VIII deficient chemically depleted	



Reference	Designation Click to go to the product sheet	WEB
6-FDPPLG-10	→ Plasminogen Immunodepleted Deficient Human Plasma	•
6-FDPPC-10	→ Protein C Immunodepleted Deficient Human Plasma	•
6-FDPPCI-10	→ Protein C Inhibitor Immunodepleted Deficient Human Plasma	•
6-FDPPS-10	→ Protein S Immunodepleted Deficient Human Plasma	•
6-FDPTPA-10	→ t-PA Immunodepleted Deficient Human Plasma	•
6-FDPTPAPAI-10	→ t-PA/PAI-1 Immunodepleted Deficient Human Plasma	•
6-FDPTAFI-10	→ TAFI Immunodepleted Deficient Human Plasma	•
6-FDPVW-10	→ VWF Immunodepleted Deficient Human Plasma	•
Congenital deficient		
6-PPD08C-INH	→ Human FVIII congenital deficient plasma with Anti-VIII inhibitor (Bethesda)	
6-PPD02C	→ Human Factor II congenital deficient plasma >5%	₩
6-PPD05C-S	→ Human Factor V congenital deficient plasma (severe <1%)	₩
6-PPD05C	→ Human Factor V congenital deficient plasma >5%	₩
6-PPD07C-S	→ Human Factor VII congenital deficient plasma (severe <1%)	
6-PPD07C	→ Human Factor VII congenital deficient plasma >5%	•
6-PPD08C-S	→ Human Factor VIII congenital deficient plasma (severe <1%)	•
6-PPD08C	→ Human Factor VIII congenital deficient plasma >5%	•
6-PPD09C	→ Human Factor IX congenital deficient plasma >5%	•
6-PPD09C-S	→ Human Factor IX congenital deficient plasma (severe <1%)	•
6-PPD10C	→ Human Factor X congenital deficient plasma >5%	•
6-PPD10C-S	→ Human Factor X congenital deficient plasma (severe <1%)	₩



Reference	Designation Click to go to the product sheet	WEB
6-PPD11C	→ Human Factor XI congenital deficient plasma >5%	•
6-PPD11C-S	→ Human Factor XI congenital deficient plasma (severe <1%)	•
6-PPDATC	→ Human Antithrombin congenital deficient plasma	•
6-PPDPLGC	→ Human Plasminogen congenital deficient plasma	•
6-PPDPCC	→ Human Protein C congenital deficient plasma	•
6-PPDPSC	→ Protein S human deficient plasma (congenital)	•
6-PPDA2APC	→ Alpha-2-antiplasmin human deficient plasma (congenital)	•
6-PPDKINC	ightarrow High molecular weight kininogen human deficient plasma (congenital)	•
6-PPD12C	→ Human Factor XII congenital deficicent plasma >5%	•
6-PPD12C-S	→ Human Factor XII congenital deficient plasma (severe <1%)	•
6-PPD13C	→ Human Factor XIII congenital deficient plasma >5%	•
6-PPD13C-S	→ Human Factor XIII congenital deficient plasma (severe <1%)	•
Acquired deficient	t plasmas (Bottles)	
6-PPDATA	→ Antithrombin human deficient plasma (acquired)	•
6-PPDPLGA	→ Plasminogen human deficient plasma (acquired)	•
6-PPDPKA	→ Prekallikrein human deficient plasma (acquired)	•
6-PPDPCA	→ Protein C human deficient plasma (acquired)	•
6-PPDPSA	→ Protein S human deficient plasma (acquired)	•
6-PPDA2APA	→ Human plasma deficient in alpha-2-antiplasmin (acquired)	•
6-PPDKINA	ightarrow High molecular weight kininogen human deficient plasma (acquired)	•



Reference	Designation Click to go to the product sheet	WEB
Congenital defic	cient plasmas (Kits)	
7-0500	→ Human Factor V congenital Deficient Plasma	
7-0700	→ Human Factor VII congenital Deficient Plasma	
7-0800	→ Human Factor VIII congenital Deficient Plasma	<b>***</b>
7-1800	→ Human Factor VIII congenital Deficient Plasma with inhibitor	
7-0900	→ Human Factor IX congenital Deficient Plasma	
7-1000	→ Human Factor X congenital Deficient Plasma	•
7-1100	→ Human Factor XI congenital Deficient Plasma	•
7-1200	→ Human Factor XII congenital Deficient Plasma	•
7-1300-1	→ Human Factor XIII congenital Deficient Plasma	<b>***</b>
7-1700	→ Human Prekallikrein congenital Deficient Plasma	<b>***</b>
7-1401	→ Deficient Human Plasma in Native VWF (VWD Type 1)	<b>***</b>
7-1404	→ Deficient Human Plasma in Native VWF (VWD Type 2A)	•
7-1402	→ Deficient Human Plasma in Native VWF (VWD Type 2B)	•
7-1403	→ Deficient Human Plasma in Native VWF (VWD Type 3)	



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# a2-Antiplasmin Immunodepleted Deficient **Human Plasma**













## Associated products

Antithrombin deficient plasma immuno depleted

Factor IX immuno depleted deficient plasma

Factor V immuno depleted deficient plasma

## Informations

 $\alpha$ 2-antiplasmin ( $\alpha$ -2-antiplasmin or  $\alpha$ -2-AP) is the main inhibitor of plasmin, the key enzyme in fibrinolysis.

It binds to FXIII and to fibrin, allowing the stabilization of the thrombus.

Reference	Presentation	Format
6-FDPA2AP	Bottle	1 x 100 mL
6-FDPA2AP-10	Kit	10 x 1.0 mL

### Immunodepleted Deficient Human Plasma for α2-Antiplasmine assay.

Pool of normal citrated plasmas depleted in  $\alpha$ 2-antiplasmin ( $\alpha_2$ AP) by anti- $\alpha_2$ AP antibodies grafted on agarose gel. Contains 20 mM Hepes buffer.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives.
- No reconstitution error.
- No plasma alteration linked to freeze-drying.
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.

This box is intended for research use.



Immunodepleted deficient plasmas

Plasmas frais congelés

# Antithrombin Immunodepleted Deficient Human Plasma











Reference	Presentation	Format
6-FDPAT	Bottle	1 x 100 mL
6-FDPAT-10	Kit	10 x 1.0 mL

Immunodepleted deficient plasma for antithrombin (AT III) assay.

Normal citrated human plasma depleted of antithrombin using antibodies directed to antithrombin immobilized on agarose beads. Plasma contains 20 mM Hepes.

### Informations

Associated products

Antithrombin is a glycoprotein of the serpin family, synthesized by the liver with a half-life of 3 days. It is the most powerful of the physiological coagulation inhibitors.

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin deficient plasma immuno depleted

Factor IX immuno depleted deficient plasma

It mainly inhibits thrombin but also at a lower level FIXa, FXa, FXIa. Its inhibitory action is amplified in the presence of heparin or heparan sulphate.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.

This box is intended for research use



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# **Antithrombin/Heparin Cofactor II** Immunodepleted Deficient Human Plasma













Assoc	iate	d pr	odu	icts
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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Fibrinogen Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPATHCFII	Bottle	1 x 100 mL
6-FDPATHCFII-10	Kit	10 x 1.0 mL

Immunodepleted deficient plasma for heparin cofactor II assay.

Human plasma immuno-depleted in antithrombin complex and heparin cofactor II and buffered with 20mM HEPES.

### Informations

Antithrombin is a major inhibitor of serine proteases, it acts mainly on thrombin and FXa as well as on FIX, FXI and FXII, the inhibition of which is catalyzed by heparin.

The second heparin cofactor is a serine protease inhibitor. It inhibits thrombin, chymotrypsin and other enzymes of the same group.

Its rate of inhibition is amplified in the presence of heparin.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.

This box is intended for research use.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# Fibrinogen Immunodepleted Deficient Human Plasma









## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Kininogen Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFIB	Bottle	1 x 100 mL
6-FDPFIB-10	Kit	10 x 1.0 mL

### Plasma deficient for fibrinogen assay.

Pooled normal citrated human plasma defibrinated under controlled conditions, using purified human thrombin.

Plasma contains 20mM Hepes buffer.

### Informations

Fibrinogen (Factor I) is a plasma soluble glycoprotein that is synthesized by the liver at a size of 340 kDa and circulating at a concentration of 2.6 to 3 mg/mL.

Fibrinogen is a dimer bound by disulfide bridges composed of 3 pairs of polypeptide chains not identical. Under the action of thrombin, fibrinogen is converted into fibrin. In combination with FXIII. calcium ions, fibrin forms a stable network that ensures coagulation.

### Components

 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.

This box is intended for research use



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FII Immunodepleted Deficient Human Plasma











## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFII	Bottle	1 x 100 mL
6-FDPFII-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor II assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FII. It is deficient in both antigenic and functional assay.

### Informations

Factor II or prothrombin is the precursor protein of thrombin, the key enzyme in coagulation.

Prothrombin is synthesized by the liver and is dependent on vitamin K.

FII is activated to thrombin by the prothrombinase complex.

Its half-life is 50 to 120 hours.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasma

# FIX Immunodepleted Deficient Human Plasma











## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFIX	Bottle	1 x 100 mL
6-FDPFIX-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor IX assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FIX. It is deficient in both antigenic and functional assay.

### Informations

FIX (FIX) is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FV Immunodepleted Deficient Human Plasma









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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFV	Bottle	1 x 100 mL
6-FDPFV-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor V assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FV. It is deficient in both antigenic and functional assay.

### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

With FXa, it forms a complex which, in the presence of phospholipids and calcium, activates FII into thrombin.

The FVa is neutralized by the PCa. Its plasma half-life is 12 to 36 hours.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FVII Immunodepleted Deficient Human Plasma









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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFVII	Bottle	1 x 100 mL
6-FDPFVII-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor VII assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FV. It is deficient in both antigenic and functional assay.

### Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, vitamin k dependent. When tissue factor (TF) appears on the surface of damaged, abnormal or activated vascular endothelium, FVIIa associates with it, initiating the extrinsic pathway of coagulation.

The FT-FVIIa complex activates the FX in FXa and the FIX in FIXa.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FVIII Immunodepleted Deficient Human Plasma









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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFVIII	Bottle	1 x 100 mL
6-FDPFVIII-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor VIII assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FVIII. It is deficient in both antigenic and functional assay.

### Informations

Factor VIII (FVIII) is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FVIII Immunodepleted Deficient Human Plasma with VWF











## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

### Informations

Factor VIII is a glycoprotein with a molecular weight of 250,000 Da synthesized mainly by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.

Reference	Presentation	Format
6-FDPFVIII-VWF	Bottle	1 x 100 mL
6-FDPFVIII-VWF-50	Bottle	1 x 50 mL
6-FDPFVIII-VWF-500	Bottle	1 x 500 mL

Human plasma immunodepleted of Factor VIII with a normal level of Factor von Willebrand (VWF), used for the search for inhibitors of Factor VIII. Frozen and poor in platelets.

Human FVIII deficient plasma is produced from a pool of human normal citrated plasma, immunodepleted to obtain a deficiency in factor VIII with VIII levels (antigen and activity) < 1% while VWF levels (antigen and activity) are >50%.

### Components

- 1 bottle of minimum 100 mL of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying

### Characteristics



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FX Immunodepleted Deficient Human Plasma







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## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFX	Bottle	1 x 100 mL
6-FDPFX-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor X assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FX. It is deficient in both antigenic and functional assay.

### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FXI Immunodepleted Deficient Human Plasma











## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFXI	Bottle	1 x 100 mL
6-FDPFXI-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor XI assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FXI. It is deficient in both antigenic and functional assay.

### Informations

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# FXII Immunodepleted Deficient Human Plasma









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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFXII	Bottle	1 x 100 mL
6-FDPFXII-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor XII assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FXII. It is deficient in both antigenic and functional assay.

### Informations

Factor XII (FXII) is a glycoprotein synthesized in the evening. FXII participates in the contact phase which initiates the intrinsic pathway of coagulation. Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein and kallikrein (amplified by KHPM) then FXI to FXIa in the presence of KHPM. The FXIa thus formed activates the FXII in FXIIa, amplifying the reaction.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# **FXIII Immunodepleted Deficient Human Plasma**











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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPFXIII	Bottle	1 x 100 mL
6-FDPFXIII-10	Kit	10 x 1.0 mL

### Plasma deficient for Factor XIII assay.

Plasma frozen, immunodepleted, poor in platelets and certified to have less than 1% in FXIII. It is deficient in both antigenic and functional assay.

### Informations

FXIII (FXIII) or fibrin stabilization factor is the zymogen of a transglutaminase. FXIII is activated by thrombin, it intervenes in the final phase of fibrinoformation to stabilize the fibrin clot. It is also involved in the phenomena of tissue repair and scarring by allowing the association of collagen and fibronectin.

There are constitutional deficits in FXIII which are autosomal recessive inheritance. The severe forms are associated with a hemorrhagic syndrome. Acquired FXIII deficiency due to anti-FXIII autoantibodies is also a very important cause of bleeding diathesis.

The consumption of FXIII in various diseases (malignant infections, Crohn's Henoch-Schoenlein purpura, major surgery, ...) usually results from a moderate drop in the level of FXIII.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# Heparin Cofactor II Immunodepleted Deficient **Human Plasma**









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## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Fibrinogen Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPHCII	Bottle	1 x 100 mL
6-FDPHCII-10	Kit	10 x 1.0 mL

Immunodepleted deficient plasma for heparin cofactor II (HCII).

Human plasma immunodepleted in heparin cofactor II and buffered with 20 mM HEPES.

### Informations

The second heparin cofactor is a serine protease inhibitor. It inhibits thrombin, chymotrypsin and other enzymes of the same group. Its rate of inhibition is amplified in the presence of heparin.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen

### Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 ml.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.

This box is intended for research use



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

## Kininogen Immunodepleted Deficient Human Plasma











## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin deficient plasma immuno depleted

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High molecular weight kininggen is a glycoprotein acting as a cofactor in the initiation of coagulation.

Reference	Presentation	Format
6-FDPKIN	Bottle	1 x 100 mL
6-FDPKIN-10	Kit	10 x 1.0 mL

Pool of normal plasmas immunodepleted in kininogen by kininogen-specific antibodies grafted onto agarose gels and supplemented with purified prekallikrein to achieve normal prekallikrein activity (≥50%). Contains 20 mM Hepes buffer.

Human plasma immuno-depleted in kininogen and buffered with 20mM HEPES.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

#### Advantages

- No bovine additives.
- No reconstitution error.
- No plasma alteration linked to freeze-drying.
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# PAI-1 Immunodepleted Deficient Human Plasma













## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPPAI	Bottle	1 x 100 mL
6-FDPPAI-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma for PAI-1 assay.

Plasminogen activator inhibitor 1 (PAI-1) immunodepleted human plasma buffered with 20mM HEPES.

#### Informations

Plasminogen activator inhibitor (PAI-1) is a glycoprotein, the main inhibitor of t-PA and u-PA. It plays an important role in controlling excessive fibrinolysis. PAI-1 is mainly synthesized by vascular endothelial cells, as well as by other cells (hepatocyte, SMC, fibroblasts...). It circulates in plasma in 3 forms: an active form bound to vitronectin, a latent free form and an inactive form. By inhibiting t-PA and u-PA, PAI-1 limits plasminogen activation and controls fibrinous thrombus degradation.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# **B2GP1 Immunodepleted Deficient Human** Plasma













## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPB2GP1	Bottle	1 x 100 mL
6-FDPB2GP1-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma for ß2 glycoprotein 1 (B2GP1) assay.

Citrated normal human plasma depleted in ß2 Glycoprotein 1 (B2GP1, also known as APOH) obtained by affinity immunoadsorption by antibodies directed specifically against B2GP1. Contains 20 mM Hepes buffer.

#### Informations

β2-glycoprotein 1, also known as Beta-2 glycoprotein 1 and Apolipoprotein H (Apo-H), is a 38 kDa multifunctional plasma protein that in humans is encoded by the APOH gene. One of its functions is to bind cardiolipin.

### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the element considered, both for the antigenic and functional assay in haemostasis. This box is intended for research use.



Immunodepleted deficient plasmas

Fresh Frozen Plasmas

# Prekallikrein Immunodepleted Deficient Human Plasma









## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPPK	Bottle	1 x 100 mL
6-FDPPK-10	Kit	10 x 1.0 mL

Immunodepleted deficient plasma for the determination of prekallikrein.

Citrated normal human plasma depleted in prekallikrein by antibodies specific to prekallikrein grafted on agarose gels. Contains 20 mM Hepes buffer.

#### Informations

Prekallikrein is a glycoprotein, zymogen of serine protease. Non-covalently complexed with high molecular weight kininogen.

Prekallikrein participates in the activation of coagulation, fibrinolysis, generation of kinins and inflammatory phenomena.

It is activated into kallikrein by FXIIa.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No plasma alteration linked to freeze-drying
- Ready to use after defrosting (4 min at 37° C)
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

# Plasma Factor VIII deficient chemically depleted











## Associated products

Human Factor VIII congenital deficient plasma (severe <1%)

Human Factor VIII congenital deficient plasma >5%

Reference	Presentation	Format
9-FVIII-CD	Vial	from 50 mL

Plasma deficient for the determination of Factor VIII.

### Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma as bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa.

A patient who is deficient in FVIII has hemophilia A.

#### Advantages

Reduces the time needed to set up your test protocols.

Ready to use after thawing.

#### Characteristics

This plasma is chemically depleted and assayed at less than 1% for the specific factor.

Freezing the plasmas at -80 °C makes it possible to keep the matrix perfectly intact and to avoid reconstitution.

Our packages contain dry ice for transport. No additives or preservatives. Expiration date> 1 year. Plastic bottles.





Immunodepleted deficient plasmas

Fresh frozen plasmas

# Plasminogen Immunodepleted Deficient Human Plasma









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## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPPLG	Bottle	1 x 100 mL
6-FDPPLG-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma deficient for plasminogen assay

Pooled normal citrated human plasma depleted of plasminogen using antibodies directed to plaminogen immobilized on agarose beads. Plasma contains 20 mM Hepes.

#### Informations

Plasminogen is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea.

It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh frozen plasmas

## Protein C Immunodepleted Deficient Human Plasma











a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPPC	Bottle	1 x 100 mL
6-FDPPC-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma for protein C assay

Pooled normal citrated human plasma depleted of protein C using antibodies directed to protein C immobilized on agarose beads. Plasma contains 20 mM Hepes.

#### Informations

Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. CP is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa).

PCa in the presence of protein S, calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh frozen plasmas

# Protein C Inhibitor Immunodepleted Deficient Human Plasma









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## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPPCI	Bottle	1 x 100 mL
6-FDPPCI-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma for protein C inhibitor assay

Human plasma immunodepleted in protein C and buffered with 20mM HEPES.

#### Informations

Protein C inhibitor (PCI) is a plasma serine protease which primarily inhibits protein C but also inhibits thrombin, FXa, t-PA, trypsin, chymotrypsin. Its action is amplified in the presence of high concentrations of heparin.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 ml.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



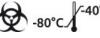
Immunodepleted deficient plasmas

Fresh frozen plasmas

# Protein S Immunodepleted Deficient Human Plasma











Reference	Presentation	Format
6-FDPPS	Bottle	1 x 100 mL
6-FDPPS-10	Kit	10 x 1.0 mL

Immunodepleted deficient plasma deficient for protein S assay.

Pooled normal citrated human plasma depleted of protein S using antibodies directed to protein S immobilized on agarose beads. Plasma contains 20 mM Hepes.

## Associated products

a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

#### Informations

Protein S is a 69 kDa dependent vitamin K eglycoprotein synthesized by hepatocytes, endothelial cells, megakaryodytes and osteoblasts. It is a physiological inhibitor of coagulation. It acts as a cofactor of activated protein C by promoting inactivation by proteolysis of FVa and FVIIIa. It inhibits the activation of prothrombin and the formation of the prothrombinase complex on phospholipids as well as the activation of FX.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh frozen plasmas

# t-PA Immunodepleted Deficient Human Plasma











Associated products
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a2-Antiplasmin Immunodepleted Deficient Human Plasma

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPTPA	Bottle	1 x 100 mL
6-FDPTPA-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma for t-PA assay.

Human plasma immuno-depleted in t-PA and buffered with 20mM HEPES

#### Informations

Tissue plasminogen activator (t-PA) is a serine esterase that plays a key role in the fibrinolysis system. It is present in plasma, 95% bound to PAI-1, in platelets and in some tissues.

In plasma, the enzymatic activity of t-PA on plasminogen is very low, it is amplified 200 to 400 times when t-PA and plasminogen are adsorbed to fibrin.

## Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 ml.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh frozen plasmas

# t-PA/PAI-1 Immunodepleted Deficient Human Plasma











## Associated products

a2-Antiplasmin Immunodepleted Deficient Human Plasma

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-FDPTPAPAI	Bottle	1 x 100 mL
6-FDPTPAPAI-10	Kit	10 x 1.0 mL

#### Immunodepleted deficient plasma for t-PA / PAI-1 assay

Human plasma immuno-depleted of the t-PA / PAI-1 complex then buffered with 20 mM HEPES

#### Informations

Tissue plasminogen activator (t-PA) is a serine esterase that plays a key role in the fibrinolysis system. It is present in plasma, 95% bound to PAI-1, in platelets and in some tissues. In plasma, the enzymatic activity of t-PA on plasminogen is very low, it is amplified 200 to 400 times when t-PA and plasminogen are adsorbed to fibrin.

Plasminogen activator inhibitor (PAI-1) is a glycoprotein, the primary inhibitor of t-PA and u-PA. It plays an important role in controlling excessive fibrinolysis. PAI-1 is mainly synthesized by vascular endothelial cells, as well as by other cells (hepatocyte, CML, fibroblasts, etc.). It circulates in plasma in 3 forms: an active form linked to vitronectin, a latent free form and an inactive form. By inhibiting t-PA and u-PA, PAI-1 limits the activation of plasminogen and controls the degradation of fibrinous thrombus.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 ml.

The frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.



Immunodepleted deficient plasmas

Fresh frozen plasmas

# TAFI Immunodepleted Deficient Human Plasma

10 x 1.0 mL





6-FDPTAFI-10





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Reference	Presentation	Format
6-FDPTAFI	Bottle	1 x 100 mL

Plasma deficient for thrombin activatable fibrinolysis inhibitor (TAFI) assay.

Pooled normal citrated human plasma depleted of TAFI using antibodies directed to TAFI immobilized on agarose beads. Plasma contains 20 mM Hepes.

Kit

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a2-Antiplasmin Immunodepleted Deficient Human

Antithrombin Immunodepleted Deficient Human Plasma

Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Plasma

#### Informations

TAFI (Thrombin-activatable fibrinolysis inhibitor) is an enzyme that stabilizes the clot by protecting the clot fibrin from lysis. TAFI is activated by thrombin and its activation is amplified in the presence of thrombomodulin.

Activated TAFI removes the C-terminal lysine and arginine residues of fibrin which are necessary for the binding of t-PA, plasmin and plasminogen to fibrin.

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Immunodepleted deficient plasmas

Fresh frozen plasmas

# **VWF Immunodepleted Deficient Human Plasma**







Reference	Presentation
* KOO @ -80°C	.10-15°C2-8°C.

Associated products	Reference	Presentation	Format	
a2-Antiplasmin Immunodepleted Deficient Human	6-FDPVW	Bottle	1 x 100 mL	
Plasma	6-FDPVW-10	Kit	10 x 1.0 mL	

#### Immunodepleted deficient plasma for von Willebrand factor assay.

Pooled normal citrated human plasma depleted of von Willebrand factor using antibodies directed to von Willebrand factor immobilized on agarose beads. Plasma contains 20 mM Hepes.

#### Informations

Deficient Human Plasma

Plasma

Von Willebrand factor (VWF) is a large glycoprotein that is found in plasma, endothelial cells and megakaryocytes. VWF is composed of 15 to 20 multimers ranging in molecular weight from 500 kDa to 20,000 kDa and high molecular weight multimers are essential for biological activity. Its role is on the one hand to transport FVIII in the circulation to protect it from its degradation and on the other hand it participates in adhesion and platelet aggregation.

Antithrombin Immunodepleted Deficient Human

Antithrombin/Heparin Cofactor II Immunodepleted

#### Components

- 10 cryotubes x 1 mL or 100 mL vial of frozen plasma.

## Advantages

- No bovine additives
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Cryotubes ready to use after thawing (4 min at 37°C).

#### Characteristics

Packaging in plastic cryotubes or in bottles of at least 100 mL.

Frozen, immuno-depleted plasmas are certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in haemostasis.



Congenital deficient plasmas (Bottles)

# Human FVIII congenital deficient plasma with Anti-VIII inhibitor (Bethesda)











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/ 1330CI	acca	PIOC	dees

Plasma Factor VIII deficient chemically depleted

Human Factor VIII congenital deficient plasma (severe <1%)

Human Factor VIII congenital deficient plasma >5%

#### Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation. It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in

A patient who is deficient in FVIII has hemophilia A.

Reference	Presentation	Format
6-PPD08C-INH	Vial	Minimum 50 mL

Plasma from a single human donor with congenital Factor VIII deficiency with anti-VIII inhibitor.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

## Human Factor II congenital deficient plasma >5%









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## Associated products

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Human Factor VII congenital deficient plasma (severe <1%)

Reference	Presentation	Format
6-PPD02C	Vial	Minimum 50 mL

#### Plasma from human donor with congenital FII defiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours.

FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process.

It will transform fibrinogen into fibrin, amplify its own formation and activate the protein C, TAFI and platelet systems.

There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during antivitamin K treatment or deficiency in vitamin K, CIVD, anti-FII autoantibodies.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C. We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Congenital deficient plasmas (Bottles)

# Human Factor V congenital deficient plasma (severe <1%)











Associated	products
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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma >5%

Human Factor VII congenital deficient plasma (severe <1%)

Reference	Presentation	Format
6-PPD05C-S	Vial	Minimum 50 mL

#### Plasma from human donor with congenital FV deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Congenital deficient plasmas (Bottles)

# Human Factor V congenital deficient plasma >5%











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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor VII congenital deficient plasma (severe <1%)

Reference	Presentation	Format
6-PPD05C	Vial	Minimum 50 mL

#### Plasma from human donor with congenital FVI defiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

It forms with FXa a complex which, in the presence phospholipids and calcium, activates prothrombin to thrombin.

The FVa is neutralized by the PCa.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor VII congenital deficient plasma (severe <1%)











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M330Cla	ceu	proc	Juccs

Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD07C-S	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FVII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form.

When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation.

This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year. Plastic vials.





Congenital deficient plasmas (Bottles)

## Human Factor VII congenital deficient plasma >5%











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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD07C	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FVII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex.

Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor VIII congenital deficient plasma (severe <1%)









RUO	<b>∲</b> -80°C⊅	/-40°C	***	
	<b>X</b> ""	•		

Human FVIII congenital deficient plasma with Anti-VIII inhibitor (Bethesda)

Plasma Factor VIII deficient chemically depleted

Human Factor VIII congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD08C-S	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FVIII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa.

A patient who is deficient in FVIII has hemophilia A.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

## Human Factor VIII congenital deficient plasma >5%











## Associated products

Human FVIII congenital deficient plasma with Anti-VIII inhibitor (Bethesda)

Plasma Factor VIII deficient chemically depleted

Human Factor VIII congenital deficient plasma (severe <1%)

Reference	Presentation	Format	
6-PPD08C	Vial	Minimum 50 ml	Ī

#### Plasma from a human donor with congenital FVIII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Factor VIII is a glycoprotein mainly synthesized by

It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa.

A patient who is deficient in FVIII has hemophilia A.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor IX congenital deficient plasma >5%











Associated	products
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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD09C	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FIX deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.

## Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Congenital deficient plasmas (Bottles)

# Human Factor IX congenital deficient plasma (severe <1%)











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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD09C-S	Vial	Minimum 50 mL

Plasma from a single human donor with congenital Factor IX deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

FIX is a vitamin K dependent glycoprotein synthesized by the liver.

FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor X congenital deficient plasma >5%











Associated products
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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD10C	Vial	Minimum 50 mL

Plasma from a single human donor with congenital FX deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor X congenital deficient plasma (severe <1%)













Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD10C-S	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FX deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K.

FX is involved in the common pathway of

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

## Human Factor XI congenital deficient plasma >5%











## Associated products

Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD11C	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FXI deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor XI congenital deficient plasma (severe <1%)









* RUO 🕸 -80°C.
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## Associated products

Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD11C-S	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FXI deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.

## Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Antithrombin congenital deficient plasma











Assoc	iated	d prod	lucts
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Antithrombin deficient plasma immuno depleted

Plasma with high antithrombin level

Antithrombin human deficient plasma (acquired)

Reference	Presentation	Format
6-PPDATC	Vial	Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

### Informations

Previously called antithrombin III (abbreviated ATIII), human antithrombin is one of the major physiological inhibitors of coagulation.

A natural serine protease inhibitor, antithrombin acts mainly on thrombin (IIa) and activated Factor X (FXa), as well as on activated forms of factors IX, XI and XII.

This reaction is catalyzed by heparin.

The normal level of antithrombin is between 80 and 120% in adults and it is about half in newborns. Antithrombin deficiency predisposes thrombosis.

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

## Human Plasminogen congenital deficient plasma





## Associated products

Plasminogen human deficient plasma (acquired)

Plasminogen Immunodepleted Deficient Human Plasma

Reference	Presentation	Format
6-PPDPLGC	Vial	Minimum 50 m

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

### Informations

Plasminogen is a plasma protein which is involved in its active form (plasmin) in the processes of fibrinolysis. Plasminogen is synthesized by the liver, kidney, cornea, and eosinophils.

It exists in 2 forms: glu-plasminogen (native form) and lys-plasminogen (more active form).

These 2 forms can be transformed into plasmin.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Congenital deficient plasmas (Bottles)

# Human Protein C congenital deficient plasma





## Associated products

Protein C human deficient plasma (acquired)

C Diluent / S Diluent

Plasma with high level of C protein: > 150 %

Reference	Presentation	Format
6-PPDPCC	Vial	Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

### Informations

Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. CP is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa).

PCa in the presence of protein S, calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

## Protein S human deficient plasma (congenital)





## Associated products

Protein S human deficient plasma (acquired)

ACTICLOT® Protein S

C Diluent / S Diluent

Reference	Presentation	Format
6-PPDPSC	Vial	Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

### Informations

Protein S is a vitamin K dependent protein. It is a physiological inhibitor of coagulation.

It acts as a cofactor of activated protein C by promoting the inactivation of FVa and FVIIIa, prothrombin, of the prothrombinase complex, FX. A protein S deficiency can be either acquired (hepatocellular insufficiency, vitamin K deficiency, anti-protein S antibody, ...) or constitutional (heterozygous or homozygous deficiency) grouped into 2 types depending on whether the deficiency is quantitative (type I) or qualitative (type II).

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Alpha-2-antiplasmin human deficient plasma (congenital)











RUU	<b>₹</b> -80°C <b>1</b>	

Reference	Presentation	Format
6-PPDA2APC	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital $\alpha$ -2-antiplasmin deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

(acquired)

Associated products

α-2-antiplasmin is an inhibitor of serine proteases, mainly plasmin. It plays an important role in the regulation of fibrinolysis.

Human plasma deficient in alpha-2-antiplasmin

It has 3 main functions: it inhibits plasmin, interferes with the adsorption of plasminogen to fibrin and binds to the α chain of fibrin.

A decrease in the amount of  $\alpha$ -2-antiplasmin can lead to bleeding syndromes.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# High molecular weight kininogen human deficient plasma (congenital)











## Associated products

High molecular weight kininggen human deficient plasma (acquired)

#### Informations

High molecular weight kininggen is a glycoprotein which acts as a cofactor in the initiation of coagulation. Deficits in KHPM lengthen TCA.

The KHPM dosage is indicated in the presence of an increase in TCA corrected by the addition of control plasma and in the absence of a deficit of other coagulation factors.

A deep deficit does not cause a hemorrhagic tendency.

#### Reference Presentation **Format** Vial Minimum 50 mL 6-PPDKINC

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

## Human Factor XII congenital deficicent plasma >5%











*	RUO	<b>♦</b> -80°C <b>/</b>	-40°C	
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Associa	ted	l brod	luct	S
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Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD12C	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FXII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor XII (FXII) is a glycoprotein synthesized in the

FXII participates in the contact phase which initiates the intrinsic pathway of coagulation.

Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein and kallikrein (amplified by KHPM) then FXI to FXIa in the presence of KHPM.

The FXIa thus formed activates the FXII in FXIIa. amplifying the reaction.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor XII congenital deficient plasma (severe <1%)











## Associated products

Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD12C-S	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FXII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Factor XII (FXII) is a glycoprotein synthesized in the evening. FXII participates in the contact phase which initiates the intrinsic pathway of coagulation. Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein and kallikrein (amplified by KHPM) then FXI to FXIa in the presence of KHPM.

The FXIa thus formed activates the FXII in FXIIa, amplifying the reaction.

## Advantages

Minimize test time. Ready to use.

## Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor XIII congenital deficient plasma >5%









## Associated products

Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD13C	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FXIII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

## Informations

Factor XIII is synthesized by the liver. Activated by thrombin, FXIII intervenes in the final phase of fibrinoformation to stabilize the fibrin clot by forming covalent bonds in the fibrin polymer.

## Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Congenital deficient plasmas (Bottles)

# Human Factor XIII congenital deficient plasma (severe <1%)







*	RUO	<b>D</b>	-80°C.∕	/-40°C	***	
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#### Associated products

Human Factor II congenital deficient plasma >5%

Human Factor V congenital deficient plasma (severe <1%)

Human Factor V congenital deficient plasma >5%

Reference	Presentation	Format
6-PPD13C-S	Vial	Minimum 50 mL

#### Plasma from a human donor with congenital FXIII deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Factor XIII is synthesized by the liver. Activated by thrombin, FXIII intervenes in the final phase of fibrinoformation to stabilize the fibrin clot by forming covalent bonds in the fibrin polymer.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Acquired deficient plasmas (Bottles)

# Antithrombin human deficient plasma (acquired)











	100		
Associ	ated	DLOC	lucts
/ 1330CI	acca	PIOC	dees

Plasma with high antithrombin level

Human Antithrombin congenital deficient plasma

Reference	Presentation	Format
6-PPDATA	Vial	Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Previously called antithrombin III (abbreviated ATIII), human antithrombin is one of the major physiological inhibitors of coagulation.

A natural serine protease inhibitor, antithrombin acts mainly on thrombin (IIa) and activated Factor X (FXa), as well as on activated forms of factors IX, XI and XII.

This reaction is catalyzed by heparin. The normal level of antithrombin is between 80 and 120% in adults and it is about half in newborns.

Antithrombin deficiency predisposes thrombosis.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains

perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Acquired deficient plasmas (Bottles)

# Plasminogen human deficient plasma (acquired)

Format

Minimum 50 mL





volume requested.

Reference

6-PPDPLGA







Presentation

Vial

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the

*	RUO	<b>⊗</b> -80°C.∕	∕-40°C	***	
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Associa	ted p	rodu	ıcts

Human Plasminogen congenital deficient plasma

#### Informations

Plasminogen is a plasma protein which is involved in its active form (plasmin) in the processes of fibrinolysis. Plasminogen is synthesized by the liver, kidney, cornea, and eosinophils.

It exists in 2 forms: glu-plasminogen (native form) and lys-plasminogen (more active form).

These 2 forms can be transformed into plasmin.

### Advantages

Minimize test time. Ready to use.

### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.





Acquired deficient plasmas (Bottles)

# Prekallikrein human deficient plasma (acquired)









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### Associated products

Human Prekallikrein congenital Deficient Plasma

#### Informations

Prekallikrein is a glycoprotein, a serine protease zymogen. Non-covalently complexed with high molecular weight kininogen.

Prekallikrein participates in the activation of coagulation, fibrinolysis, the generation of kinins and inflammatory phenomena. It is activated to kallikrein by FXIIa.

#### Reference Presentation Format 6-PPDPKA Vial Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.





Acquired deficient plasmas (Bottles)

### Protein C human deficient plasma (acquired)





### Associated products

APC Resistance Kit

C Diluent / S Diluent

Human Protein C congenital deficient plasma

Reference	Presentation	Format
6-PPDPCA	Vial	Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. CP is at the center of a physiological system that inhibits coagulation: the anticoagulant system of protein C. Thrombin associated with thrombomodulin loses its procoagulant properties at the same time as it activates PC to active protein C (PCa).

PCa in the presence of protein S, calcium and phospholipids is capable of cleaving FVa and FVIIIa blocking the amplification loop of thrombin generation.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Acquired deficient plasmas (Bottles)

## Protein S human deficient plasma (acquired)





### Associated products

C Diluent / S Diluent

Protein S human deficient plasma (congenital)

Plasma with high level of S protein: > 150 %

Reference	Presentation	Format
6-PPDPSA	Vial	Minimum 50 mL

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

Protein S is a vitamin K dependent protein. It is a physiological inhibitor of coagulation.

It acts as a cofactor of activated protein C by promoting the inactivation of FVa and FVIIIa, prothrombin, of the prothrombinase complex, FX. A protein S deficiency can be either acquired (hepatocellular insufficiency, vitamin K deficiency, anti-protein S antibody, ...) or constitutional (heterozygous or homozygous deficiency) grouped into 2 types depending on whether the deficiency is quantitative (type I) or qualitative (type II).

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Acquired deficient plasmas (Bottles)

# Human plasma deficient in alpha-2-antiplasmin (acquired)











Associated products	

Alpha-2-antiplasmin human deficient plasma (congenital)

#### Informations

α-2-antiplasmin is an inhibitor of serine proteases, mainly plasmin. It plays an important role in the regulation of fibrinolysis.

It has 3 main functions: α-2-antiplasmin inhibits plasmin, interferes with the adsorption of plasminogen to fibrin and binds to the a chain of fibrin.

A decrease in the amount of α-2-antiplasmin can lead to bleeding syndromes.

#### Reference Presentation **Format** Vial Minimum 50 mL 6-PPDA2APA

#### Plasma from a donor with acquired $\alpha$ -2-antiplasmin deficiency.

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year.





Acquired deficient plasmas (Bottles)













*	RUO	-80°C√	1	

Associated products	Reference	Presentation	Format
	6-PPDKINA	Vial	Minimum 50 mL
High molecular weight kininogen human deficient			

Packaging in bottle. The minimum packaged volume is 50 mL. The price offer is based on the volume requested.

#### Informations

plasma (congenital)

High molecular weight kininggen is a glycoprotein which acts as a cofactor in the initiation of coagulation.

Deficits in KHPM lengthen TCA.

Associated products

The KHPM dosage is indicated in the presence of an increase in TCA corrected by the addition of control plasma and in the absence of a deficit of other coagulation factors.

A deep deficit does not cause a hemorrhagic tendency.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with acquired deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.





Congenital deficient plasmas (Kits)

#### Fresh frozen plasmas

## Human Factor V congenital Deficient Plasma



#### Associated products

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma with inhibitor

#### Informations

Factor V (FV) is a protein mainly synthesized by the

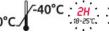
It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa.

With FXa, it forms a complex which, in the presence of phospholipids and calcium, activates FII into thrombin.

The FVa is neutralized by the PCa. Its plasma half-life is 12 to 36 hours.















Plasma from a single human donor with congenital Factor V deficiency. Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

### Characteristics

- The frozen, native plasmas, obtained from donors, are poor in platelets and certified to have less than 1% for the deficient factor considered. both for the antigenic assay and for functional

Plasma Humain Natif Déficient en Facteur V

- This plasma is stable, if stored at -40 to -80 ° C, until the end of the month of the expiration date indicated on the package.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

## Human Factor VII congenital Deficient Plasma



#### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma with inhibitor

#### Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, vitamin k dependent. When tissue factor (TF) appears on the surface of damaged, abnormal or activated vascular endothelium, FVIIa associates with it, initiating the extrinsic pathway of coagulation.

The FT-FVIIa complex activates the FX in FXa and the FIX in FIXa.

<b>™</b> RUO �� -80°c ∤ -4	0°C : 2H :	. 2-8°C .	7J -20°C	***	
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Reference	Presentation	Format
7-0700	Kit	5 x 1.0 mL

Plasma from a single human donor with congenital Factor VII deficiency.

Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

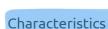
Ces plasmas déficients natifs en facteur de la coagulation sont recommandés pour l'évaluation de l'activité des facteurs de la coagulation par la méthode de dosage du taux de prothrombine (TP) ou temps de céphaline activé (TCA) nécessitant l'emploi d'un plasma dépourvu en facteur (< 1 %) en hémostase.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.



- Frozen plasmas, certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.

Plasma Humain Natif Déficient en Facteur VII

- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

## Human Factor VIII congenital Deficient Plasma



### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma with inhibitor

#### Informations

Factor VIII is a glycoprotein mainly synthesized by the liver.

It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation.

It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa.

A patient who is deficient in FVIII has hemophilia A.

<b>RUO ♦</b> -80°C <b>1</b> -40°C :	2H YH :	7J -20°C
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Reference	Presentation	Format
7-0800	Kit	5 x 1.0 mL

Plasma from a single human donor with congenital Factor VIII deficiency.

Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

### Advantages

- None of these plasmas contain inhibitors
- No additives or preservatives
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports

## Characteristics

Déficient en Facteur VIII

- Frozen plasmas, certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.
- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.



- 5 cryotubes x 1 mL of frozen plasma



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

### Human Factor VIII congenital Deficient Plasma with inhibitor















#### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

#### Information

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation. It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa.

A patient who is deficient in FVIII has hemophilia A. The occurrence of anti-FVIII inhibitory antibodies represents the major complication of replacement therapy with FVIII concentrates in hemophiliacs A. There is therefore an autoimmunization responsible for acquired hemophilia.

#### Reference Presentation **Format** 7-1800 Kit $5 \times 1.0 \text{ mL}$

Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency and exhibiting anti-FVIII inhibitory antibodies.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

### Advantages

- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

#### Characteristics

- Frozen plasmas, certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.
- This plasma is stable, if stored at -40 to -80 °C. until the end of the month of the expiration date indicated on the package.



- 5 cryotubes x 1 mL of frozen plasma



Congenital deficient plasmas (Kits)

#### Fresh frozen plasmas

## Human Factor IX congenital Deficient Plasma



### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

#### Informations

FIX is a vitamin K dependent glycoprotein synthesized by the liver.

FIX can be activated to FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium.

A person who is deficient in FIX has hemophilia B.













Plasma from a single human donor with congenital Factor IX deficiency. Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

#### Characteristics

- Frozen plasmas, certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.

Plasma Humain Natif Déficient en Facteur IX

- This plasma is stable, if stored at -40 to -80 °C. until the end of the month of the expiration date indicated on the package.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

## Human Factor X congenital Deficient Plasma



### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

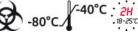
#### Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation.

It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids.

FXa is neutralized by TFPI and antithrombin.











Reference	Presentation	Format
7-1000	Kit	5 x 1.0 mL

Plasma from a single human donor with congenital Factor X deficiency. Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

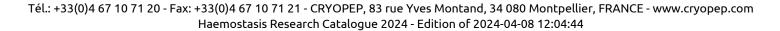
### Characteristics

- Frozen plasmas, certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.

Plasma Humain Natif Déficient en Facteur X

- This plasma is stable, if stored at -40 to -80 °C. until the end of the month of the expiration date indicated on the package.





Congenital deficient plasmas (Kits)

Fresh frozen plasmas

## Human Factor XI congenital Deficient Plasma



#### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

#### Informations

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.







7-1100	Kit	5 x 1.0 mL	

Presentation

Plasma from a single human donor with congenital Factor XI deficiency. Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

#### Advantages

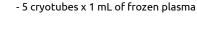
- None of these plasmas contain inhibitors
- No additives or preservatives
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports

#### Characteristics

- The frozen, native plasmas certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in hemostasis.

Plasma Humain Natif Déficient en Facteur XI

- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.



Components



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

## Human Factor XII congenital Deficient Plasma



#### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

#### Informations

Factor XII (FXII) is a glycoprotein synthesized by the liver. FXII participates in the contact phase which initiates the intrinsic pathway of coagulation.

Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein and kallikrein (amplified by KHPM) then FXI to FXIa in the presence of KHPM.

The FXIa thus formed activates the FXII in FXIIa, amplifying the reaction.



Reference	Presentation	Format
7-1200	Kit	5 x 1.0 mL

Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors
- No additives or preservatives
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports

#### Characteristics

- Frozen plasmas, certified to have less than 1% for the deficient factor considered, both for the antigenic assay and for functional hemostasis.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.

Plasma Humain Natif Déficient en Facteur XII

7-1200

- This plasma is stable, if stored at -40 to -80 °C. until the end of the month of the expiration date indicated on the package.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

## Human Factor XIII congenital Deficient Plasma



#### Associated products

Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

#### Informations

Factor XIII is synthesized by the liver. Activated by thrombin, FXIII intervenes in the final phase of fibrinoformation to stabilize the fibrin clot by



Components

- 5 cryotubes x 0.5 mL or 1 mL of frozen plasma

Reference	Presentation	Format
7-1300-0	Kit	5 x 1.0 mL
7-1300-1	Kit	5 x 0.5 mL

Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital clotting factor deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coaqulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<5%) in hemostasis.

- None of these plasmas contain inhibitors
- No additives or preservatives
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports

#### Characteristics

- The frozen, native plasmas certified to have less than 5% for the deficient factor considered, both for the antigenic and functional assay in hemostasis.

Plasma Humain Déficient en Facteur XIII

REF 7-1300 LOT 15420 월 2018/

- This plasma is stable, if stored at -40 to -80 °C. until the end of the month of the expiration date indicated on the package.



forming covalent bonds in the fibrin polymer.



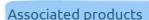


Congenital deficient plasmas (Kits)

Fresh frozen plasmas

# Human Prekallikrein congenital Deficient Plasma





Human Factor V congenital Deficient Plasma

Human Factor VII congenital Deficient Plasma

Human Factor VIII congenital Deficient Plasma

#### Informations

Prekallikrein is a glycoprotein, a serine protease zymogen. Non-covalently complexed with high molecular weight kiningen.

Prekallikrein participates in the activation of coagulation, fibrinolysis, the generation of kinins and inflammatory phenomena. It is activated into kallikrein by FXIIa.

	RUO	-80°C	-40°C : 2H : 18-25°C	. 2-8°C .	7J -20°C	
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Reference	Presentation	Format
7-1700	Kit	5 x 1.0 mL

Native coagulation factor deficient plasmas are fresh frozen plasmas obtained exclusively from donors with severe congenital prekallikrein deficiency.

These native coagulation factor-deficient plasmas are recommended for the evaluation of the activity of coagulation factors by the method of assaying the level of prothrombin (PT) or activated partial thromboplastin time (TCA) requiring the use of a plasma lacking in factor (<1%) in hemostasis.

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

#### Characteristics

- The frozen, native plasmas certified to have less than 1% for the deficient factor considered, both for the antigenic and functional assay in hemostasis.

Plasma Humain Natif Déficient en Prékallikréine

- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.



- 5 cryotubes x 1 mL of frozen plasma



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

# Deficient Human Plasma in Native VWF (VWD Type 1)







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Reference	Presentation	Format	
7-1401	Kit	5 x 1.0 mL	

Plasmas from patients with type 1 von Willebrand disease (VWD type 1) are fresh frozen plasmas obtained exclusively from donors with moderate congenital von Willebrand factor (VWF) deficiency.



#### Informations

3)

Associated products

Willebrand's disease (VWD) is a genetic and hereditary disease which causes a qualitative or quantitative alteration of VWF causing more or less severe bleeding. VWDs are categorized into 3 types according to their faults:

Deficient Human Plasma in Native VWF (VWD Type

Deficient Human Plasma in Native VWF (VWD Type

Type 1: the level of VWF is in lower quantity or having a shorter lifespan in the bloodstream, inducing a partial quantitative defect.

Type 2: the level of VWF is in normal quantity or slightly reduced but it is altered in its structure inducing a qualitative deficit.

Type 3: this is the most serious type because the VWF level is greatly reduced <1% of the normal associated with a decreased level of FVIII.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

- The frozen, native plasmas, certified to have between 5 and 30% of normal VWF level, both for the antigenic and functional assay in hemostasis.
- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.
- The stability of the product is 7 days at -20 °C.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

# Deficient Human Plasma in Native VWF (VWD Type 2A)











Associated	products
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Deficient Human Plasma in Native VWF (VWD Type

Deficient Human Plasma in Native VWF (VWD Type 2B)

Reference	Presentation	Format
7-1404	Kit	5 x 1.0 mL

Plasmas from patients with von Willebrand disease type 2a (VWD type 2a) are fresh frozen plasmas obtained exclusively from donors with congenital qualitative and quantitative von Willebrand factor (VWF) deficiency.



#### Informations

Willebrand's disease (VWD) is a genetic and hereditary disease which causes a qualitative or quantitative alteration of VWF causing more or less severe bleeding. VWDs are categorized into 3 types according to their faults:

Type 1: the level of VWF is in lower quantity or having a shorter lifespan in the bloodstream, inducing a partial quantitative defect.

Type 2: the level of VWF is in normal quantity or slightly reduced but it is altered in its structure inducing a qualitative deficit.

Type 3: this is the most serious type because the VWF level is greatly reduced <1% of the normal associated with a decreased level of FVIII.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.
- The stability of the product is 7 days at -20 °C.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

# Deficient Human Plasma in Native VWF (VWD Type 2B)











### Associated products

Deficient Human Plasma in Native VWF (VWD Type

Deficient Human Plasma in Native VWF (VWD Type 3)

Reference	Presentation	Format
7-1402	Kit	5 x 1.0 mL

Plasmas from patients with type 2b von Willebrand disease (VWD type 2b) are fresh frozen plasmas obtained exclusively from donors with congenital qualitative and quantitative von Willebrand factor (VWF) deficiency.



#### Informations

Willebrand's disease (VWD) is a genetic and hereditary disease which causes a qualitative or quantitative alteration of VWF causing more or less severe bleeding. VWDs are categorized into 3 types according to their faults:

Type 1: the level of VWF is in lower quantity or having a shorter lifespan in the bloodstream, inducing a partial quantitative defect.

Type 2: the level of VWF is in normal quantity or slightly reduced but it is altered in its structure inducing a qualitative deficit.

Type 3: this is the most serious type because the VWF level is greatly reduced <1% of the normal associated with a decreased level of FVIII.

Type 2b: VWF exhibits increased binding to platelets in the bloodstream rather than to vascular damage. There is a loss of the high molecular weight procoagulant forms of VWF.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors
- No additives or preservatives
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports

- This plasma is stable, if stored at -40 to -80 °C. until the end of the month of the expiration date indicated on the package.
- The stability of the product is 7 days at -20 °C.



Congenital deficient plasmas (Kits)

Fresh frozen plasmas

# Deficient Human Plasma in Native VWF (VWD Type 3)

**Format** 













Associated products	Reference	Presentati

7-1403 Kit  $5 \times 1.0 \text{ mL}$ 

Plasmas from patients with type 3 von Willebrand disease (VWD type 3) are fresh frozen plasmas obtained exclusively from donors with severe quantitative congenital von Willebrand factor (VWF) deficiency.



#### Informations

2B)

Willebrand's disease (VWD) is a genetic and hereditary disease which causes a qualitative or quantitative alteration of VWF causing more or less severe bleeding. VWDs are categorized into 3 types according to their faults:

Deficient Human Plasma in Native VWF (VWD Type

Deficient Human Plasma in Native VWF (VWD Type

Type 1: the level of VWF is in lower quantity or having a shorter lifespan in the bloodstream, inducing a partial quantitative defect.

Type 2: the level of VWF is in normal or slightly reduced quantity but it is altered in its structure inducing a qualitative deficit.

Type 3: this is the most serious type because the VWF level is greatly reduced <1% of the normal associated with a decreased level of FVIII.

#### Components

- 5 cryotubes x 1 mL of frozen plasma

#### Advantages

- None of these plasmas contain inhibitors.
- No additives or preservatives.
- Freezing the plasmas makes it possible to keep the matrix perfectly intact and to avoid reconstitution.
- -Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports.

- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package.
- The stability of the product is 7 days at -20 °C.



Reference	Designation Click to go to the product sheet	WEB
Weak control plas	sma	
6-VL9C-05	→ Very Low IX Control Plasma	•
6-VL8C-05	→ Very Low VIII Control Plasma	•
6-VL11C-05	→ Very Low XI Control Plasma	•
6-VL12C-05	→ Very Low XII Control Plasma	•
Fibrinogen plasma	as	
6-PPFIB	→ Plasma set with different fibrinogen concentrations	₩
6-PPAFIB	→ Afibrinogenemia plasma	•
6-PPFIBUL	→ Plasma with ultra low level of fibrinogen: <1 g/L	•
6-PPFIBL	→ Plasma with low level of fibrinogen: 1 - 1.5 g/L	•
6-PPFIBM	→ Plasma with normal level of fibrinogen: 1.5 - 4.5 g/L	•
6-PPFIBH	ightarrow Plasma with high level of fibrinogen: 4.5 - 10 g/L	•
6-PPFIBUH	→ Plasma with ultra high level of fibrinogen: >10 g/L	•
Individual normal	donors plasmas	
CCNS-10	→ CRYOcheck™ Normal Donor Set	•
6-PPNDCI	→ Normal donor citrated plasma (vol > 50mL)	•
6-PPNDEDTA	→ Normal donor plasma on EDTA anticoagulant	•
Normal donor seru	um	
6-SPND-05	→ Normal donor serum	•
6-SPOOL	→ Pool of fresh serum from healthy donors	•
Pool of plasma fro	om healthy donors	
6-PPOOL	→ Pool of fresh plasma from healthy donors	•



Reference	Designation Click to go to the product sheet	WEB
High Factor plas	smas	
6-PPATH	→ Plasma with high antithrombin level	
6-PP02H	→ High Factor II plasma (acquired) > 150 %	<b>—</b>
6-PP05H	→ High Factor V plasma (acquired) > 150 %	•
6-PP07H	→ High FVII plasma 100-150 % (acquired)	•
6-PP08H	→ High FVIII plasma >150 % (acquired)	•
6-PP09H	→ High Factor IX plasma >150 % (acquired)	•
6-PP10H	→ High Factor X plasma > 150 % (acquired)	•
6-PP11H	→ High Factor XI plasma > 150 % (acquired)	•
6-PP12H	→ High Factor XII plasma > 150 % (acquired)	•
6-PP13H	→ Factor XIII High > 150 % (acquired)	•
Plasmas with an	nticoagulant drugs	
6-PPAOL	→ Plasma with oral anticoagulant plasma – INR < 2.00	
6-PPAOM	→ Plasma with oral anticoagulant plasma – INR 2.00-2.99	•
6-PPAOH	$\rightarrow$ Plasma with oral anticoagulant – INR 3.00–3.99	•
6-PPAOUH	→ Plasma with oral anticoagulant plasma - INR ≥ 4.00	•
6-PPARG	→ Anticoagulant plasma – DTI – Argatroban – U/mL	



Weak control plasma

Fresh frozen plasmas

### Very Low IX Control Plasma









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$\neg$		o pro	duct.

Rox Factor IX

#### Informations

Factor IX is a glycoprotein synthesized by the liver, zymogen of a serine protease.

It is a vitamin K dependent factor and its plasma half-life is 20-24 hours.

It can be activated to FIXa by FXIa or FVIIa in the presence of phospholipids and calcium.

Reference	Presentation	Format
6-VL9C-05	Kit	25 x 0.5 mL

Human plasma pool from donors with congenital factor IX deficiency. Control plasma to measure the accuracy of the quantitative determination of Factor IX in hemostasis for a very low value.

This low value control is titrated for Factor IX hemostasis values around 2%.

#### Components

- 25 cryotubes x 0.5 mL of frozen plasma

- Undiluted citrated human plasma.
- Ready to use.
- Plasma from donors with congenital deficiency.
- Certificate of analysis mentioning the value of the measured parameter on request.







Weak control plasma

Associated products

TECHNOCHROM® FVIII:C

CRYOcheck™ Chromogenic Factor VIII

#### Fresh frozen plasmas

### Very Low VIII Control Plasma

25 x 0.5 mL









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Reference	Presentation	Format
6-VI 8C-05	Kit	25 x 0.5 m

Control plasma to measure the accuracy of the quantitative determination of Factor VIII in hemostasis for a very low value.

From an adult donor with congenital Factor VIII deficiency. This low value control is titrated for the hemostasis values of FVIII around 2%.



#### Informations

Rox Factor VIII

Factor VIII is a glycoprotein almost entirely synthesized by the liver and present in many tissues.

Its plasma half-life is thus 10 to 16 hours.

The free form of FVIII is present at very low concentration and has a half-life of 2 hours.

It circulates in the plasma in its form bound to VWF which protects it from its proteolytic degradation.

#### Components

- 25 cryotubes x 0.5 mL of frozen plasma

- Undiluted citrated human plasma
- Ready to use after 3 min at 37 °C
- Plasma from donors with congenital deficiency.
- Certificate of analysis mentioning the value of the measured parameter on request





Weak control plasma

Fresh frozen plasmas

### Very Low XI Control Plasma









Reference	Presentation	Format
6-VL11C-05	Kit	25 x 0.5 mL

Control plasma to measure the accuracy of the quantitative determination of Factor XI in hemostasis for a very low value.

This low value control is titrated for Factor XI hemostasis values around 2%.



### Informations

Factor XI (FXI) is a glycoprotein synthesized by the liver, zymogen of a serine protease. Its plasma half-life is 40 to 80 hours. This factor participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to FXIa which will itself activate FIX in the presence of calcium ions.

#### Components

- 25 cryotubes x 0.5 mL of frozen plasma

- Undiluted citrated human plasma
- Ready to use after 3 min at 37°C
- Plasma from donors with congenital deficiency.
- Certificate of analysis mentioning the value of the measured parameter on request





Weak control plasma

Fresh frozen plasmas

### Very Low XII Control Plasma









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Reference	Presentation	Format
6-VL12C-05	Kit	25 x 0.5 mL

Control plasma to measure the accuracy of the quantitative determination of Factor XII in hemostasis for a very low value.

This low value control is titrated for Factor XII hemostasis values around 2%.



### Informations

Factor XII is a glycoprotein synthesized by the liver, zymogen of a serine protease. Its plasma half-life is 50 to 70 hours. This factor participates in the contact phase which initiates the intrinsic pathway of coagulation.

Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein to kallikrein, then FXI to FXIa in the presence of KHPM.

It is also able to activate plasminogen into plasmin.

#### Components

- 25 cryotubes x 0.5 mL of frozen plasma

- Undiluted citrated human plasma
- Ready to use after 3 min at 37°C
- Plasma from donors with congenital deficiency.
- Certificate of analysis mentioning the value of the measured parameter on request





Fibrinogen plasmas

Associated products

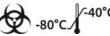
Human dysfibrinogenemia plasma

Afibrinogenemia plasma

# Plasma set with different fibrinogen concentrations











*	RUO	<b>⊗</b> -80°C.	√-40°C	***	
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Reference	Presentation	Format
6-PPFIB	Vial	10 x 1.0 mL

Different concentrations.

#### Informations

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin.

Plasma with ultra low level of fibrinogen: <1 g/L

In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Fibrinogen plasmas

### Afibrinogenemia plasma











Reference	Presentation	Format
6-PPAFIB	Vial	1 x 1.0 mL

Plasma with no fibrinogen.

### Associated products

Plasma set with different fibrinogen concentrations

Human dysfibrinogenemia plasma

Plasma with ultra low level of fibrinogen: <1 g/L

#### Informations

Fibrinogen (Factor I) is a plasma soluble glycoprotein that is synthesized by the liver at a size of 340 kDa and circulating at a concentration of 2.6 to 3 mg/mL.

Fibrinogen is a dimer bound by disulfide bridges composed of 3 pairs of polypeptide chains not identical. Under the action of thrombin, fibrinogen is converted into fibrin. In combination with FXIII, calcium ions, fibrin forms a stable network that ensures coagulation.

Afibrinogenemic plasma is plasma that does not exhibit fibrinogen. The characteristic clinical signs are hemorrhages of the umbilical cord, epistaxis, haemarthrosis, gastrointestinal haemorrhages, menorrhagia, post-traumatic and post-surgical bleeding and more rarely intracranial haemorrhages.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics





Fibrinogen plasmas

# Plasma with ultra low level of fibrinogen: <1 g/L

**Format** 

1 x 1.0 mL









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Associated products	Reference	Presentat
	6-PPFIBUL	Vial
Plasma set with different fibrinogen		

#### Informations

concentrations

Afibrinogenemia plasma

Human dysfibrinogenemia plasma

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin. In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics





Fibrinogen plasmas

# Plasma with low level of fibrinogen: 1 - 1.5 g/L

Format

1 x 1.0 mL





6-PPFIBL





Vial

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Reference	Presentation

### Associated products

Plasma set with different fibrinogen concentrations

Afibrinogenemia plasma

Human dysfibrinogenemia plasma

#### Informations

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin.

In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Fibrinogen plasmas

# Plasma with normal level of fibrinogen: 1.5 - 4.5 g/L

**Format** 

1 x 1.0 mL









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Presentation

Vial

Associated products	Refe

Plasma set with different fibrinogen

Human dysfibrinogenemia plasma

incenti ations	
ibrinogenemia plasma	

### Informations

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin. In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

#### Advantages

Minimize test time. Ready to use.

6-PPFIBM

#### Characteristics





Fibrinogen plasmas

# Plasma with high level of fibrinogen: 4.5 - 10 g/L

**Format** 

1 x 1.0 mL









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Presentation

Vial

Associated products	Reference
Plasma set with different fibrinogen	6-PPFIBH
concentrations	
Afibrinogenemia plasma	

### Informations

Human dysfibrinogenemia plasma

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin. In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics





Fibrinogen plasmas

# Plasma with ultra high level of fibrinogen: >10 g/L











Reference	Presentation	Format
6-PPFIBUH	Vial	1 x 1.0 mL

# Associated products

Plasma set with different fibrinogen concentrations

Afibrinogenemia plasma

Human dysfibrinogenemia plasma

#### Informations

Fibrinogen is a soluble protein made by the liver. Under the action of thrombin, fibrinogen is converted into fibrin. In association with FXIII, calcium ions, fibrin forms a stable network which ensures coagulation.

#### Advantages

Minimize test time. Ready to use.

#### Characteristics





Individual normal donors plasmas

#### Fresh frozen plasmas

### CRYOcheck™ Normal Donor Set



### Associated products

Pool of fresh plasma from healthy donors



Normal donor citrated plasma (vol > 50mL)





Reference	Presentation	Format
CCNS-10	Kit	25 x 1.0 mL

#### Normal plasmas from individual donors.

Components

The CRYOcheck™ Normal Donor Set consists of 25 separate plasma vials, collected with great care from healthy individual male and female donors without drug treatment between 18 and 66 years of age.

The result is a very high quality product that truly represents a sample of a "normal" population. Each plasma is verified as having a normal coagulation profile in hemostasis.

#### Advantages

- 25 cryotubes x 1 mL of frozen plasma - No bovine additives or preservatives

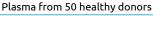
- No reconstitution error
- No deterioration of plasmas linked to freeze-drying
- Ready to use after thawing (4 min in a water bath
- Packaging in plastic cryotubes suitable for all STA-R type micro-cup supports

#### Characteristics

**Precision**BioLogic

**Normal Donor Set** 

- Results may vary depending on reagents and instrument used
- Kits can be ordered in multiples of 25 aliquots
- Flash freezing under nitrogen
- Checked negative for all serology tests required by the FDA Compact, color-coded boxes for easier identification in freezers
- Expiration date of 3 years from the date of manufacture with storage between -40 °C and -80





Individual normal donors plasmas

# Normal donor citrated plasma (vol > 50mL)





Pool of fresh plasma from healthy donors



CRYOcheck™ Normal Donor Set



Plasma from 50 healthy donors



Reference	Presentation	Format
6-PPNDCI	Vial	1 x 1.0 mL

Normal citrated plasma from a healthy single donor. Each batch corresponds to a unique healthy donor.

Plasma is low in platelets and is not buffered. Plasma is available in 3.2% or 3.8% citrate.

This reference is dedicated to providing volumes greater than 50mL. (volumes available in 50mL, 100mL and 200mL bottles). The price indicated is per mL. Plasma can be aliquoted on request in 1mL vials. Contact us for specific requests.

# Advantages

Minimize test time. Ready to use.

# Characteristics

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.

Plastic vials.





Individual normal donors plasmas

# Normal donor plasma on EDTA anticoagulant





Reference

6-PPNDEDTA







Presentation

Vial

Asso	ciate	id be	rodu	cts

Normal donor citrated plasma (vol > 50mL)

Normal donor plasma

Normal donor plasma on CPDA

*	RUO	<b>ॐ</b> -80°c <b>∕</b>	7-40 C	
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**Format** 1 x 1.0 mL

Normal donor plasma on ethylenediaminetetraacetic acid (EDTA) anticoagulant.

# Informations

EDTA (Ethylenediaminetetraacetic) captures Ca2 + ions.

Calcium is required for a wide range of enzymatic reactions in the coagulation cascade.

# Advantages

Minimize test time. Ready to use.

# Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix. All plasmas are stable when stored at -40° C to -80° C.

We carefully pack with dry ice during shipment. No additive or preservative.

Expiry date > 1 year.

Plastic vials.





Normal donor serum

# Normal donor serum











# Associated products



Pool of fresh serum from healthy donors

Presentation	Format
Vial	1 x 0.5 mL
Vial	25 x 1.0 mL
	Vial

# Advantages

Minimize test time. Ready to use.

# Characteristics

The serum comes from healthy male and female donors without drug treatment between 18 and 66 years old. The result is a very high quality product.

No buffer or preservatives are added. Quickly frozen at -80° C, the plasma maintains perfectly intact the matrix.

All plasmas are stable when stored at -40° C to -80°

We carefully pack with dry ice during shipment. No additive or preservative. Expiry date > 1 year. Plastic vials.





Normal donor serum

Associated products

Fresh frozen serum

# Pool of fresh serum from healthy donors









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Reference	Presentation	Format
6-SPOOL	Kit	10 x 1.0 mL
6-SPOOL-350	Kit	10 x 0.35 mL

#### Pool of fresh frozen normal human sera.

The serum pool is collected with great care from healthy male and female donors without drug treatment between 18 and 66 years old. The result is a very high quality product.

# Pool de Sérum Frais de Donneurs Sains REF 6-SPOOL LOT 173110 2019/02

# Informations

Normal donor serum

The serum is freed from coagulation factors and fibrinogen.

It is obtained by sampling on dry tubes without anticoagulant.

# Components

- 10 cryotubes x 0.35 mL or 1 mL

# Advantages

- Normal human serum, pool of at least 20 sera from at least 20 different healthy donors, decanted, centrifuged and frozen within 3 hours of collection.
- Packaging in plastic cryotubes.

### Characteristics

- No additives or preservatives
- No reconstitution error
- Ready to use after thawing (3 min at 37 ° C) for 1 mL tubes
- This plasma is stable, if stored at -40 to -80 °C, until the end of the month of the expiration date indicated on the package
- Quality control: example: dosage of the complement



Pool of plasma from healthy donors

# Pool of fresh plasma from healthy donors



# Associated products



CRYOcheck™ Normal Donor Set



Normal donor citrated plasma (vol > 50mL)



Plasma from 50 healthy donors

# **RUO** � -80°C √ -40°C ₩ ��

Reference	Presentation	Format
6-PPOOL	Bottle	Minimum 50 mL

#### Pool of citrated fresh frozen plasma from several healthy donors.

Pooled Normal Plasma consists of a pool of normal citrated human plasma from healthy donors. The plasma pool is platelet poor with no buffers or preservatives making it most like a patient plasma.

The pooled normal plasma is then aliquoted, and rapidly frozen.

Each lot has been assayed and confirmed to contain normal levels of coagulation factors.

# Characteristics

Recommended storage: -40 to -80°C until expiry date.





**High Factor plasmas** 

Associated products

# Plasma with high antithrombin level











Reference	Presentation	Format
6-PPATH	Vial	1 x 1.0 mL

# Prekallikrein human deficient plasma (acquired)

Informations

Previously called antithrombin III (abbreviated ATIII), human antithrombin is one of the major physiological inhibitors of coagulation. A natural serine protease inhibitor, antithrombin acts mainly on thrombin (IIa) and activated Factor X (FXa), as well as on activated forms of factors IX, XI and XII. This reaction is catalyzed by heparin. The normal level of antithrombin is between 80 and 120% in adults and it is about half in newborns. Antithrombin deficiency predisposes thrombosis.

Antithrombin human deficient plasma (acquired) Plasminogen human deficient plasma (acquired)

### Advantages

Minimize test time. Ready to use.

### Characteristics





**High Factor plasmas** 

# High Factor II plasma (acquired) > 150 %











Reference	Presentation	Format
6-PP02H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

High FVII plasma 100-150 % (acquired)

# Informations

Factor II (FII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibrinogen into fibrin, amplify its own formation and activate the protein C, TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during anti-vitamin K treatment or vitamin K deficiency, CIVD, anti-FII autoantibodies.

# Advantages

Minimize test time. Ready to use.

### Characteristics





**High Factor plasmas** 

# High Factor V plasma (acquired) > 150 %











Reference	Presentation	Format
6-PP05H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High FVII plasma 100-150 % (acquired)

# Informations

Factor V (FV) is a protein mainly synthesized by the liver. It is the enzymatic cofactor of FX and is activated in FVa by thrombin and / or FXa. It forms with FXa a complex which, in the presence of phospholipids and calcium, activates FII to FIIa. The FVa is neutralized by the PCa.

# Advantages

Minimize test time. Ready to use.

### Characteristics





**High Factor plasmas** 

# High FVII plasma 100-150 % (acquired)











Reference	Presentation	Format
6-PP07H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

# Informations

Factor VII (FVII) is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When tissue factor appears on the endothelial surface, activated FVII associates with it initiating the extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in FIXa.

# Advantages

Minimize test time. Ready to use.

# Characteristics





**High Factor plasmas** 

# High FVIII plasma > 150 % (acquired)











Reference	Presentation	Format
6-PP08H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

# Informations

Factor VIII is a glycoprotein mainly synthesized by the liver. It circulates in the plasma in the form bound to VWF which protects it from rapid proteolytic degradation. It is activated by FXa or thrombin in FVIIIa which will complex with FIXa in the presence of phospholipids to activate FX in FXa. A patient who is deficient in FVIII has hemophilia A.

# Advantages

Minimize test time. Ready to use.

# Characteristics





**High Factor plasmas** 

Associated products

High Factor V plasma (acquired) > 150 %

# High Factor IX plasma > 150 % (acquired)

**Format** 

1 x 1.0 mL





Reference





Presentation

*   RUU   -80°C	

, issociated products		
Wieb Feebrall - Learne (	6-PP09H	Vial
High Factor II plasma (acquired) > 150 %		
High Factor II plasma (G20210A positive mutation)		

# Informations

> 150%

FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIX in FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium. A person who is deficient in FIX has hemophilia B.

# Advantages

Minimize test time. Ready to use.

# Characteristics





**High Factor plasmas** 

# High Factor X plasma > 150 % (acquired)











Reference	Presentation	Format
6-PP10H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

# Informations

Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.

# Advantages

Minimize test time. Ready to use.

# Characteristics





**High Factor plasmas** 

# High Factor XI plasma > 150 % (acquired)











Reference	Presentation	Format
6-PP11H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

# Informations

Factor XI (FXI) is a protein synthesized by the liver. It participates in the contact phase which initiates the intrinsic pathway of coagulation. It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.

# Advantages

Minimize test time. Ready to use.

# Characteristics





**High Factor plasmas** 

# High Factor XII plasma > 150 % (acquired)











Reference	Presentation	Format
6-PP12H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

# Informations

Factor XII (FXII) is a glycoprotein synthesized by the liver. FXII participates in the contact phase which initiates the intrinsic pathway of coagulation. Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein and kallikrein (amplified by KHPM) then FXI to FXIa in the presence of KHPM. The FXIa thus formed activates the FXII in FXIIa, amplifying the reaction.

# Advantages

Minimize test time. Ready to use.

# Characteristics





**High Factor plasmas** 

# Factor XIII High > 150 % (acquired)











Reference	Presentation	Format
6-PP13H	Vial	1 x 1.0 mL

# Associated products

High Factor II plasma (acquired) > 150 %

High Factor II plasma (G20210A positive mutation) > 150%

High Factor V plasma (acquired) > 150 %

# Informations

Factor XIII is synthesized by the liver. Activated by thrombin, FXIII intervenes in the final phase of fibrinoformation to stabilize the fibrin clot by forming covalent bonds in the fibrin polymer.

# Advantages

Minimize test time. Ready to use.

# Characteristics





Associated products

Plasmas with anticoagulant drugs

# Plasma with oral anticoagulant plasma – INR < 2.00









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7 Sociated products
Plasma with oral anticoagulant plasma – INR 2.00-2.99
Plasma with oral anticoagulant – INR 3.00–3.99
Plasma with oral anticoagulant plasma - INR ≥ 4.00
Anticoagulant plasma – DTI – Argatroban – U/mL
Anticoagulant plasma – DTI – bivalirudin – U/mL
Plasma with low molecular weight heparin (Fragmin)
Plasma with low molecular weight heparin (Innohep)
Plasma with low molecular weight heparin (Lovenox)
Plasma with direct thrombin inhibitor (Lepirudin)

Plasma with NOAC - Fondaparinux (Arixtra®)

Reference	Presentation	Format
6-PPAOL	Vial	1 x 1.0 mL

### Advantages

Minimize test time. Ready to use.

# Characteristics





Plasmas with anticoagulant drugs

# Plasma with oral anticoagulant plasma – INR 2.00-2.99













Reference	Presentation	Format
6-PPAOM	Vial	1 x 1.0 mL

# Associated products

Plasma with oral anticoagulant plasma – INR < 2.00

Plasma with oral anticoagulant - INR 3.00-3.99

Plasma with oral anticoagulant plasma - INR ≥ 4.00

Anticoagulant plasma - DTI - Argatroban - U/mL

Anticoagulant plasma – DTI – bivalirudin – U/mL

Plasma with low molecular weight heparin (Fragmin)

Plasma with low molecular weight heparin (Innohep)

Plasma with low molecular weight heparin (Lovenox)

Plasma with direct thrombin inhibitor (Lepirudin)

Plasma with NOAC - Fondaparinux (Arixtra®)

# Advantages

Minimize test time. Ready to use.

### Characteristics





Plasmas with anticoagulant drugs

# Plasma with oral anticoagulant - INR 3.00-3.99









Reference	Presentation	Format
6-PPAOH	Vial	1 x 1.0 mL

Donor under Coumadin® treatment Plasma collected by plasmapheresis at FDA approved donor centers.

Anticoagulant: 3.2 % Sodium citrate

# Associated products

Plasma with oral anticoagulant plasma – INR < 2.00

Plasma with oral anticoagulant plasma – INR 2.00-2.99

Plasma with oral anticoagulant plasma - INR ≥ 4.00

# Informations

Warfarin (Coumadin) is an antithrombotic agent from the group of anti-vitamin K (AVK).

In plasma, it is strongly bound to albumin (97%). Only the free fraction is active and metabolized. AVKs are involved in the hepatocyte in the vitamin K reduction mechanism.

Reduced vitamin K is the cofactor of a carboxylase converts alutamic gamma-carboxyglutamic acid which is necessary for the attachment of certain coagulation factors to phospholipid surfaces.

AVKs have an indirect anticoagulant effect by preventing the synthesis of the active forms of several coagulation factors (factors II, VII, IX, X).

administered orally, VKA induce hypoprothrombinemia within 36 to 72 hours. After stopping the AVK, the anticoagulant action persists for 4 days, the speed of correction being a function of the hepatic synthesis capacities of vitamin K-dependent coagulation factors and the half-life of the AVK.

The times indicated may be prolonged, in particular in the elderly. The half-life of warfarin is in the range of 35 to 45 hours.

# Advantages

Minimize test time. Ready to use.

# Characteristics

Special plasmas are derived from patients with a congenital deficiency, severe or moderate, or presenting a particular profile. No buffer or preservatives are added.

Store at -80/-40°C, stable until date stated on vial label when stored at -80/-40°C.

After thawed, stable during 4 hours at  $+2/+8^{\circ}$ C in original vial.

No additive or preservative.

Expiry date > 1 year.

Plastic vials.





Plasmas with anticoagulant drugs

# Plasma with oral anticoagulant plasma - INR ≥ 4.00











Reference	Presentation	Format
6-PPAOUH	Vial	1 x 1.0 mL

Donor under Coumadin® treatment Plasma collected by plasmapheresis at FDA approved donor centers.

Anticoagulant: 3.2 % Sodium citrate

# Associated products

Plasma with oral anticoagulant plasma – INR < 2.00

Plasma with oral anticoagulant plasma – INR 2.00-2.99

Plasma with oral anticoagulant - INR 3.00-3.99

# Informations

Warfarin (Coumadin) is an antithrombotic agent from the group of anti-vitamin K (AVK).

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# Characteristics

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After thawed, stable during 4 hours at  $+2/+8^{\circ}$ C in original vial.

No additive or preservative.

Expiry date > 1 year.

Plastic vials.





Plasmas with anticoagulant drugs

Plasma with oral anticoagulant plasma – INR < 2.00 Plasma with oral anticoagulant plasma – INR

Plasma with oral anticoagulant - INR 3.00-3.99

# Anticoagulant plasma – DTI – Argatroban – U/mL

**Format** 

1 x 1.0 mL









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Vial

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associated products	Reference	Presentation

#### Informations

2.00-2.99

Argatroban is a synthetic derivative of L-arginine. It is a direct thrombin inhibitor, which acts independently of antithrombin. It inhibits the formation of fibrin, the activation of coagulation factors (V, VIII, XIII), the activation of protein C and platelet aggregation.

# Advantages

Minimize test time. Ready to use.

6-PPARG

# Characteristics





Reference	Designation Click to go to the product sheet	PM (g/mol)	WEB
Agkistrodon contortr	rix venom snake		
8-113-01	→ Protac® 3U	36 000 - 42 000	<b>⊕</b>
6-VEN-PROT-3	→ Protac	36 000 à 42 000	•
Daboia Russelii ven	om		
9-RVVX-2010	→ Daboia Russelii venom (frozen)	67 000	
6-VEN-RVVX-100	→ Daboia Russelii venom (Iyophilized)	67 000	•
Echis carinatus vend	om snake		
8-116-01	→ Ecarin 50 EU	55 000 à 60 000	
6-VEN-ECAR-50	→ Ecarin	55 000 à 60 000	•
9-ECVVII-2011	→ Prothrombin activator (echarin)	56 000	•
Vipera Russelii vend	om		
8-121-03	→ RVV-Facteur V Activator	28 000	
8-121-07	→ RVV Facteur X Activator	120 000	•
9-RVVV-2000	→ RVV-V Venin de Vipera Russelii (frozen)	28 000	•
6-VEN-RVVV-100	→ RVV-V Venin de Vipèra Russelii (lyophilized)	28 000	
Bothrops atrox veno	om snake		
8-101-04	→ Batroxobin Maranhao 100BU	43 000	<b>—</b>
6-VEN-BATRO-50	→ Batroxobin	43 000	•
Crotalus durissus te	rrificus venom snake		
8-119-02	→ Convulxin 50 μg	84 000	
6-VEN-CONV-50	→ Convulxin	84 000	



Agkistrodon contortrix venom snake

# Protac® 3U





Protac



#### Product derived from Agkistrodon venom contortrix in freeze-dried form.

MW (Da): 36,000 to 42,000

CAS: 103469-93-8

The Protac®, a single-chain glycoprotein, is a fast-acting activator of protein C, isolated from the venom of the copper-headed snake Agkistrodon contortrix. It rapidly converts human C protein and other vertebrates into activated C protein that can be determined, either by measuring its effect on the extension of an activated cephalin time (TCA) by measuring its enzymatic activity using a specific chromogenic substrate. Protac is therefore used to determine the levels of C protein and S protein in plasma.

# Informations

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated

#### Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year.







Agkistrodon contortrix venom snake

# **Protac**













Associated	products
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Protac® 3U

# Informations

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

Reference	Presentation	Format
6-VEN-PROT-3	Vial	1 x 3 U

Product derived from Agkistrodon contortrix venom in lyophilized form. Protac is used for the determination of protein C and protein S levels in plasma.

Molecular Weight (Da): 36 000 à 42 000

Protac, a single chain glycoprotein, is a fast-acting protein C activator isolated from the venom of the copperhead snake Agkistrodon contortrix and closely related snake species. This serine proteinase rapidly converts protein C of man and other vertebrates into activated protein C which may be determined either by measuring its prolonging effect on the activated partial thromboplastin time (APTT) or by measuring its enzyme activity by means of a specific chromogenic substrate.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

Stability before reconstitution: Expiry date indicated on the vial. After reconstitution: 1 year at -25/-15°C. 30 days at +2/+8°C

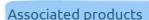




Daboia Russelii venom

# Daboia Russelii venom (frozen)





Daboia Russelii venom (lyophilized)



Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium



Reference	Presentation	Format
9-RVVX-2010	Vial	100 µg
9-RVVX-2010-1	Vial	1 mg

Product derived from poisonous snake venom in frozen form.

MW(Da): 67 000

RVV-X is a specific activator of Factor X to Xa and Factor IX to IXa from Russell's viper venom.

RVV-X is used in lupus anticoagulant testing.

### Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year







Daboia Russelii venom

Associated products

Informations

Daboia Russelii venom (frozen)

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain

more than 20 different compounds, mostly

proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation,

blood pressure regulation, transmission of the nervous or muscular impulse and have been

developed for use as diagnostic tools. Plasma

coagulation Factors are usually inactive and require

proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

# Daboia Russelii venom (lyophilized)













Reference	Presentation	Format
6-VEN-RVVX-100	Vial	100 µg

#### Product derived from poisonous snake venom in lyophilized form.

MW(Da): 67 000

Specific FX activator from Russell's viper venom. Zn2+ dependant endopeptidase, glycoprotein 2 disulfide linked subunits (Mr = 67 kDa, 26 kDa). RVV-X is used in diagnostic procedures to quantitatively convert the zymogen FX into FXa and zymogen FIX into FIXa. RVV-X is used in testing of lupus anticoagulants.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year

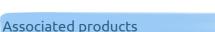




Echis carinatus venom snake

# Ecarin 50 EU





Ecarin

Prothrombin activator (echarin)

# Informations

Snake venom proteases are interesting tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mainly proteins and polypeptides. Some snake venoms have very specific effects on various biological functions, including blood clotting, regulation of blood pressure, transmission of nerve or muscle impulses. They were developed for use as diagnostic tools. Plasma coagulation factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation factors rather than using physiological activators. In contrast to other activators, many snake venom enzymes are not dependent on cofactors, phospholipids, or calcium ions.



Reference	Presentation	Format
8-116-01	Vial	1 x 50 U

#### Product derived from Echis carinatus venom in lyophilized form.

MW (Da): 55 000 à 60 000

Ecarin is a snake (Echis carinatus) venom that directly activates prothrombin to meizothrombin. The use of the measurement of the coagulation time by ecarin allows the biological monitoring of the anticoagulant by hirudin. The meizothrombin can then bind stoichiometrically to the hirudin to be assayed.

#### Advantages

The proposed venom proteases are obtained from highly purified homogeneous preparations with indication of the activities.

# Characteristics

All venoms are supplied in a 50% glycerol / water liquid solution for storage at -20 ° C or lyophilized at 2-8 °C.

The expiration date is 1 year.







Associated products

Informations

Prothrombin activator (echarin)

Echis carinatus venom snake

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain

more than 20 different compounds, mostly

proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation,

blood pressure regulation, transmission of the nervous or muscular impulse and have been

developed for use as diagnostic tools. Plasma

coagulation Factors are usually inactive and require

proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

# **Ecarin**







RUO	2°C./	

Reference	Presentation	Format
6-VEN-ECAR-50	Vial	50 µg

#### Product derived from Echis carinatus venom in lyophilized form.

MW(Da): 55 000 à 60 000 Ecarin is a snake (Echis carinatus) venom that directly activates prothrombin to meizothrombin. The use of the measurement of the coaqulation time by ecarin allows the biological monitoring of the anticoagulant by hirudin. The meizothrombin can then bind stoichiometrically to the hirudin to be assayed. Coagulation only takes place when all of the hirudin is bound to meizothrombin.

#### Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year





Echis carinatus venom snake

# Prothrombin activator (echarin)











# Associated products

Ecarin

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Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

#### Reference Presentation **Format** 9-ECVVII-2011 Vial 100 µg 9-ECVVII-2011-1 Vial 1 mg

#### Product derived from Echis carinatus venom in frozen form.

MW(Da): 56 000 Metalendo-peptidase, single chain, Prothrombin activator, Cleavage of Arg323-Ile324 bond in prothrombin to form meizothrombin. The use of the measurement of the coagulation time by ecarin allows the biological monitoring of the anticoagulant by hirudin. The meizothrombin can then bind stoichiometrically to the hirudin to be assayed. Coaqulation only takes place when all of the hirudin is bound to meizothrombin.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year







Vipera Russelii venom

# **RVV-Facteur V Activator**





Daboia Russelii venom (frozen)

Daboia Russelii venom (lyophilized)

# Informations

Snake venom proteases are interesting tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mainly proteins and polypeptides. Some snake venoms have very specific effects on various biological functions, including blood clotting, regulation of blood pressure, transmission of nerve or muscle impulses. They were developed for use as diagnostic tools. Plasma coagulation factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation factors rather than using physiological activators. In contrast to other activators, many snake venom enzymes are not dependent on cofactors, phospholipids, or calcium ions.



Reference	Presentation	Format
8-121-03	Vial	1 x 1000 U

#### Product derived from the venom of Vipera russelli in lyophilized form.

MW (Da): 28 000

RVV-V is a specific activator of FV to FVa from Russell's viper venom which converts single chain FV into an active 2 chain compound. Activated FV is not stable and loses activity within 20 hours at 37 °C.

Therefore, RVV-V is also used to selectively inactivate FV in plasma in order to prepare a routine reagent for determination of FV.

# Advantages

Venom proteases are obtained from highly purified homogeneous preparations with indication of the activities.

# Characteristics

The isolated snake venom proteins can be used in coagulation and platelet aggregation tests, in photometric tests as well as in immunological systems.





Vipera Russelii venom

# **RVV Facteur X Activator**





Daboia Russelii venom (frozen)

Daboia Russelii venom (lyophilized)



Snake venom proteases are interesting tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mainly proteins and polypeptides. Some snake venoms have very specific effects on various biological functions, including blood clotting, regulation of blood pressure, transmission of nerve or muscle impulses. They were developed for use as diagnostic tools. Plasma coagulation factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation factors rather than using physiological activators. In contrast to other activators, many snake venom enzymes are not dependent on cofactors, phospholipids, or calcium ions.



Reference	Presentation	Format
8-121-07	Vial	1 x 50 U

#### Product derived from poisonous snake venom in lyophilized form.

MW (Da): 120,000

Specific activator of FX to FXa and FIX to FIXa from the venom of Russell's viper, Zn2 + dependent endopeptidase. Glycoprotein bound to 2 subunits (67 kDa, 26 kDa). RVV-X is used in lupus anticoagulant testing.

# Advantages

Venom proteases are obtained from highly purified homogeneous preparations with indication of the activities.

# Characteristics

Stabilizer: Prionex®
Lyophilised form to be stored in the dark between +2/+8°C.
Activity 50U/vial.







Vipera Russelii venom

# RVV-V Venin de Vipera Russelii (frozen)











# Associated products

RVV-V Venin de Vipèra Russelii (lyophilized)

#### Informations

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

#### Reference Presentation **Format** Vial 9-RVVV-2000 100 µg 9-RVVV-2000-1 Vial 1 mg

#### Product derived from poisonous snake venom in frozen form.

MW(Da): 28 000 RVV-V is a specific Factor V activator from Russell's viper venom converts single chain Factor V to an active two chain form. Activated Factor V is not stable and loses its activity within 20 hours at 37° C. Therefore, RVV-V is used to destabilize and selectively inactivate Factor V in plasma and thus to prepare a routine reagent for the Factor V determination.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

#### Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year



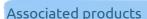




Vipera Russelii venom

# RVV-V Venin de Vipèra Russelii (lyophilized)





RVV-V Venin de Vipera Russelii (frozen)

# Informations

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium

RUO	2°C √8°C	12 Hors.	***	
	201	. 2-86.		

Reference	Presentation	Format
6-VEN-RVVV-100	Vial	100 µg

#### Product derived from the venom of Vipera russelli in lyophilized form.

500 à 1000 U MW(Da): 28 000 RVV-V is a specific FV activator from Russell's viper venom converts single chain FV to an active two chain form. Activated FV is not stable and loses its activity within 20 hours at 37° C. Therefore, RVV-V is used to destabilize and selectively inactivate FV in plasma and thus to prepare a routine reagent for the FV determination.

#### Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year





Bothrops atrox venom snake

# Batroxobin Maranhao 100BU





Batroxobin



Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium





Reference	Presentation	Format
8-101-04	Vial	1 x 100 BU
8-101-06	Vial	1 x 1000 BU
8-101-06	Vial	1 x 1000 BU

#### Product derived from Bothrops atrox venom in lyophilized form.

MW(Da): 43 000

Due to its specification on fibrinogen (cleaves alpha chain) and its ability to clot platelet-rich plasma without affecting the integrity and functions of platelets, and thanks to its insensitivity to thrombin inhibitors, batroxobin has found several applications as a tool in blood coagulation research and diagnosis. Batroxobin can be used to determine fibrinogen in plasma, to measure the batroxobin clotting time (Reptilase® time) as a heparin-insensitive parallel to the thrombin time, to investigate dysfibrinogenemias, and to test the contractile system of platelets. Furthermore, batroxobin is used for defibring enation of plasma.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All of our venom products are supplied in 50 % glycerol / water for storage at -20° C or supplied lyophilized at 2-8° C. Expiry date = 1 year







Informations

ions.

Bothrops atrox venom snake

Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain

more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in

snake venom have very specific effects on various

biological functions including blood coagulation,

blood pressure regulation, transmission of the

nervous or muscular impulse and have been

developed for use as diagnostic tools. Plasma

coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often

advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other

activators, many snake venom enzymes are not

dependent from cofactors, phospholipid or calcium

# **Batroxobin**







Reference	Presentation	Format
6-VEN-BATRO-50	Vial	50 µg

#### Product derived from Bothrops atrox venom in lyophilized form. MW(Da): 43 000

Due to its specification on fibrinogen (cleaves alpha chain) and its ability to clot platelet-rich plasma without affecting the integrity and functions of platelets, and thanks to its insensitivity to thrombin inhibitors, batroxobin has found several applications as a tool in blood coaqulation research and diagnosis. Batroxobin can be used to determine fibrinogen in plasma, to measure the batroxobin clotting time (Reptilase® time) as a heparin-insensitive parallel to the thrombin time, to investigate dysfibringgenemias, and to test the contractile system of platelets. Furthermore, batroxobin is used for defibring enation of plasma.

#### Components

Bottle of approximately 100 BU of purified batroxobin. The exact value varies according to each batch, referring to the certificate of analysis.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All venoms are supplied in a 50% liquid glycerol/water solution for storage at -20°C or freeze-dried at 2-8°C.

Vials reconstituted with 1 mL of PPI type water: The reconstituted product can be:

Aliquoted and frozen immediately and stored:

- 1 year at -80°C
- 1 month at -15/-25°C
- 8 hours at 15-25°C

stored at +2/+8°C for 2 days



Associated products

Convulxin

Informations

Crotalus durissus terrificus venom snake

Snake venom proteases are interesting tools for studying coagulation reactions. Venoms contain

more than 20 different compounds, mainly proteins

and polypeptides. Some snake venoms have very specific effects on various biological functions. including blood clotting, regulation of blood

pressure, transmission of nerve or muscle impulses. They were developed for use as diagnostic tools.

Plasma coagulation factors are usually inactive and

require proteolytic activation as a first step

towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation factors rather than using physiological activators. In contrast to other activators, many snake venom enzymes are not dependent on cofactors,

# Convulxin 50 µg











Reference	Presentation	Format
8-119-02	Vial	50 µg

#### Product derived from the venom of Crotalus durissus terrificus in frozen form.

MW (Da): 84,000

Convulxin, a heterodimeric type C lectin isolated from the venom of the Brazilian rattlesnake Crotalus durissus terrificus, activates mammalian blood platelets by specifically binding to the collagen receptor p62 / GPVI of blood platelets under physiological conditions. Convulxin can be used in platelet receptor studies.

# Advantages

Venom proteases are obtained from highly purified homogeneous preparations with indication of the activities.

# Characteristics

All venoms are supplied in a 50% glycerol / water liquid solution for storage at -20 ° C or lyophilized at 2-8 ° C. The expiration date is 1 year.







phospholipids, or calcium ions.

Crotalus durissus terrificus venom snake

# Convulxin





Convulxin 50 µg



Snake venom proteases are useful tools for studying coagulation reactions. Venoms contain more than 20 different compounds, mostly proteins and polypeptides. Some of the proteins in snake venom have very specific effects on various biological functions including blood coagulation, blood pressure regulation, transmission of the nervous or muscular impulse and have been developed for use as diagnostic tools. Plasma coagulation Factors are usually inactive and require proteolytic activation as a first step towards a chronometric or colorimetric assay. It is often advantageous to use specific enzymes from snake venoms to activate coagulation Factors rather than physiological activators. In contrast to other activators, many snake venom enzymes are not dependent from cofactors, phospholipid or calcium



Reference	Presentation	Format
6-VEN-CONV-50	Vial	50 µg

# Product derived from the venom of Crotalus durissus terrificus in freeze-dried form. MW(Da): 84 000

Convulxin (CVX), a potent platelet aggregation protein belonging to the C-type heterodimeric lectin family, is isolated from the venom of the snake Crotalus durissus terrificus. Neither antibodies against GPIb nor against echicetin had any effect on convulxin-induced platelet aggregation, demonstrating that, unlike other venom C-type lectins acting on platelets, GPIb is not not involved in convulxin-induced platelet activation.

Convulxin activates mammalian platelets via binding to the platelet collagen receptor p62/GPVI and clustering of glycoprotein VI (GPVI) receptors under physiological conditions.

GPVI occupancy and clustering activates Src family kinases, phosphorylating the Fc receptor γ chain and activating p72SYK which is critical for downstream activation of platelets. Allows the study of platelet receptors.

# Advantages

The venom proteases offered are highly purified, homogenous preparations with the indicated activities.

# Characteristics

All venoms are supplied in freeze-dried format at -20°C. The expiration date is 1 year at -20°C or 3 years at -80°C. Vials reconstituted with 1 mL of PPI type water:

the reconstituted product can be frozen immediately and stored for 1 month at -80°C. 2 days at 2-8°C

8 hours at 15-25°C





Reference	Designation	Click to go to the product sheet	PM (g/mol)	WEB
Collagen				
20-X9310	→ Haematex	Collagen Equine fibrous type I/III		<b>#</b>
20-X9315	→ Solcoll Co	llagen Solution		•
Buffers				
6-BUFC1INH-100	→ C1 Inhibito	or Buffer		•
8-069-03	→ Prionex®		20 000	•
6-1000-20	→ Bovine ser	rum albumin 20%		•
Phospholipids				
8-801682	→ Rabbit Bra	ain Cephalin		•
5-PL052	→ Phospholip	pids 0.25 mM		•
5-PL604T	→ Phospholip	pid-TGT Emulsion 0,5 mM		•
20-X9115	→ Synthetic I	Phospholipid Blend II		•
20-X9113	→ Synthetic I	Procoagulant Phospholipid I		



Collagen

#### Solutions

# Haematex Collagen Equine fibrous type I/III



## Associated products

Solcoll Collagen Solution

#### Informations

Type I / type III fibrillar collagen. These are the collagens found in the extracellar matrix of our blood vessels. Von Willebrand factor binds to type I and III collagen fibers through the A3 domain. Collagen is also a powerful activator of blood platelets by its attachment to its GPVI receptor.



Reference	Presentation	Format
20-X9310	Vial	1 x 1 mg

#### Purified equine collagen

Purified from horse Achilles tendons. Suitable for ELISA CBA. Solutions also available for platelet aggregation tests.



- 1 glass vial x 1 mg freeze-dried collagen







Collagen

#### Solutions

# **Solcoll Collagen Solution**





Haematex Collagen Equine fibrous type I/III

### Informations

Type I / type III fibrillar collagen. These are the collagens found in the extracellar matrix of our blood vessels.

Von Willebrand factor binds to type I and III collagen fibers through the A3 domain.

Collagen is also a powerful activator of blood platelets by its attachment to its GPVI receptor.



Reference	Presentation	Format
20-X9315	Vial	1 x 10 mL

#### Purified equine collagen

Full-length solubilized equine collagen type I/III solubilized collagen for use in platelet aggregation tests, platelet adhesion and collagen binding studies. Supplied as a stable suspension of 200 µg/mL at pH 7.2.



- 1 glass vial x 10 mL of liquid collagen

#### Characteristics

Solcoll can also be used to trigger platelet aggregation in whole blood impedance tests. It is in the form of a relatively stable, slightly cloudy and viscous liquid suspension of 200 µg / ml in 0.02 M of tris / HEPES glucose buffer at pH 7.2.

The  $100 \, \mu g$  / ml stock solution can be diluted in water, saline, or neutral buffer of lower ionic strength to any desired collagen concentration.

A range between 1 and 10 µg / ml is usually prepared for light transmission aggregometry (LTA). Platelet aggregation is usually performed with a dilution of 0.45 ml of platelet rich plasma and 0.05 ml of collagen although proportionately smaller volumes can be used.





**Buffers** 

## C1 Inhibitor Buffer

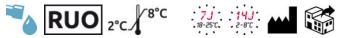


## Associated products

pNAPEP-8703

#### Informations

This buffer is used as diluent for the C1 esterase assay with chromogenic substrate PNAPEP-8703.



Reference	Presentation	Format
6-BUFC1INH-100	Vial	1 x 100 mL

Tris NaCl buffer solution in water. This buffer is used as a diluent for chromogenic assays of C1 Esterase assay with the chromogenic substrate pNAPEP-8703.

Tris (6,1 g/L) - NaCl (15 g/L) buffer pH 8,5 Color: colorless. pH at 20°C: 8.5 (8.4 - 8.6)

#### Components

The product should be stored at 2-8°C in the original packaging, protected from light.

## Advantages

Ready-to-use liquid form.





Buffers

## **Prionex®**



# Informations

Prionex® is freely soluble in water, diluted electrolyte solutions, glycerol and DMSO as well as in diluted ethanol and ammonium sulphate solutions below 20% saturation.



Reference	Presentation	Format
8-069-03	Vial	1 x 100 mL
8-069-03-1000	Vial	1 x 1000 mL
8-069-03-500	Vial	1 x 500 mL

Stabilizer of inert proteins in many applications. Alternative to bovine serum albumin (BSA). Prionex® is a porcine collagen peptide fraction.

Also useful as a blocking agent and as a protective additive in cell culture. MW (Da): 20 000

## Advantages

- Optimize the stability of biological activity
- Improves lyophilization and heat treatment conditions
- Avoid denaturation by chaotropic agents or solvents
- Extends the shelf life of enzymes and proteins
- High consistency stabilizer
- Non-toxic and non-antigenic
- Free from nucleic acids, polysaccharides and lipids
- Free from any additives

## Characteristics

Prionex® is a 10% aqueous solution of a polypeptide fraction of highly purified dermal collagen of porcine origin which has excellent protein stabilizing properties.

Prionex® is prepared by partial hydrolysis and is terminally sterilized. It is free from cartilage, bone and plasma components and is therefore a pure form of partially hydrolyzed gelatine type A. After first use, aliquot and freeze at -25 ° C to -15 ° C for long term storage.







Buffers

#### **Solutions**

# Bovine serum albumin 20%





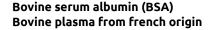








Reference	Presentation	Format
6-1000-100	Vial	1 x 100 mL
6-1000-20	Vial	1 x 20 mL
6-1000-22	Vial	5 x 20 mL
6-1000-3	Vial	1 x 3 mL



Bovine serum albumin 20% in sterile solution, ready to use. CAS:9048-46-8

#### Advantages

- Ready to use product
- No additives or preservatives
- Expiration 2 years at 2-8 °C

#### Characteristics

- Appearance : Clear liquid
- Color: Amber
- Dry extract : > 200 g / L
- Total protein: > 190 g / L pH: 6.5 7.4
- Albumin purity: > 97%
- Mesophilic germs : Absence / 1 mL
- Stability 8 hours at +2/+8°C after opening, if the environment is not guaranteed sterile



BSA Standard grade Solution à 20 % REF 6-1000-20 LOT D1407007 2017/07



**Phospholipids** 

# Rabbit Brain Cephalin



## Associated products



Phospholipids 0.25 mM



Phospholipid-TGT Emulsion 0,5 mM



Synthetic Phospholipid Blend II

Synthetic Procoagulant Phospholipid I

Tris BSA

# **RUO** -25°C √-15°C ⊕ 😭

Reference	Presentation	Format
8-801682	Vial	1 x 100 mg

Rabbit brain cephalin consists of phospholipids isolated from rabbit brain.

Rabbit brain cephalin consists of phospholipids.

It can be used as a source of phospholipids in phospholipid-dependent coagulation tests.



The main components are:

- Phosphatidylserine
- Phosphatidylethanolamine
- Phosphatidylethanolcholine







Inserts and certificates of analysis provided. Safety Data Sheets (SDS) provided. Prolonged stability after reconstitution (> 3 months).



**Phospholipids** 

#### **Solutions**

# Phospholipids 0.25 mM









Reference	Presentation	Format	Number of tests
5-PL052	Vial	1 x 3.0 mL	30

## Informations

Phospholipids constitute a catalytic surface for the enzymatic activation of coagulation factors.

circulating Lupus anticoagulants heterogeneous autoantibodies of the IgG and IgM type directly directed against a variety of anionic phospholipids such cardiolipin. phosphatidylserine or phosphatidylinositol or against proteins having the capacity to bind to phospholipids such as β2-glycoprotein I (β2 -GPI).

The contribution of phospholipids (PL) does not modify the levels of factors VIII, IX, XI, XII on normal plasmas without deficit nor LA.

The contribution of PL does not modify the levels of factors VIII, IX, XI, XII on the known deficient plasmas with and without LA (isolated constitutional or acquired deficiency)

The supply of PL leads to an increase in factors VIII, IX, XI, XII in plasmas with LA.

#### Mixture of highly purified phospholipids in emulsion.

This mixture of highly purified phospholipids contains synthetic phosphatidyl choline (PC), synthetic phosphstidyl serine (PS) and highly purified sphingomyelin (SM) in Tris-HCl 0.05 mol/L buffer, pH 7.6 at 20°C.

This solution has a long term stabilized phospholipid emulsion with high procoagulant activity.

Application: hemostasis research: procoagulant and anticoagulant pathways. NAPTT method



- 1 glass bottle x 3 mL

## Method / Application

For use in all hemostasis tests and neutralization of circulating lupus coagulants. Solution specially designed for the global NAPT method. A coagulation time of approximately 250s is obtained with the phospholipid solution, depending on the instrument used.

For the determination of pro and anticoagulant proteins, this solution is useful for all methods integrating phospholipids such as FII, FVIII, FIX, FX, Proteins C and S...

#### Characteristics

This solution can be used in hemostasis tests and for the neutralization of circulating lupus anticoagulants.

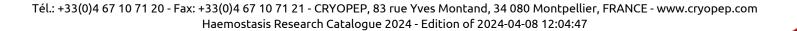
Phospholip 0.25 mmol/L

Molar concentration:

Phosphatidyl choline: 42% (synthetic) Phosphatidyl serine: 28% (synthetic) Sphingomyelin: 30% (egg yolk)

Expiration date of 30 months from the date of manufacture with storage at 2 °C / 8 °C.





enzymatic activation of coagulation factors. Lupus

circulating anticoagulants are heterogeneous autoantibodies of the IgG and IgM type directly

directed against a variety of anionic phospholipids

such as cardiolipin, phosphatidylserine or phosphatidylinositol or against proteins having the capacity to bind to phospholipids such as

The contribution of phospholipids (PL) does not

modify the levels of factors VIII, IX, XI, XII on normal

plasmas without deficit nor LA. The contribution of

PL does not modify the levels of factors VIII, IX, XI,

XII on the known deficient plasmas with and

without LA (isolated constitutional or acquired

The supply of PL leads to an increase in factors VIII,

**Phospholipids** 

Informations

β2-glycoprotein I (β2 -GPI).

IX, XI, XII in plasmas with LA.

deficiency).

#### **Solutions**

# Phospholipid-TGT Emulsion 0,5 mM









Reference	Presentation	Format	Number of tests
5-PL604T	Vial	1 x 3.0 mL	30

#### A highly stable procoagulant phospholipid. Phospholipids constitute a catalytic surface for the

Phospholipid emulsion containing a mixture of highly purified phosphatidyl choline (PC), phosphstidyl serine (PS) and sphingomyelin (SM). Tris-HCl 0.05mmol/L, pH 7.6.



#### Components

1 glass bottle x 3 mL

#### Advantages

This PL concentrate provides a possible alternative in the event of persistent difficulties due to LA on the assay of factors VIII, IX, XI or other hemostasis tests disturbed by the presence of LA.

Phospholipid-TGT constitutes a well defined emulsion containing synthetic phosphatidyl serine, phosphatidyl choline and highly purified sphingomyelin from egg yolk.

Phospholipid-TGT has rapidly demonstrated its utility in hemostasis assays involving phospholipids.

#### Characteristics

This solution has a strong procoagulant activity. It can be used in general hemostasis research and more particularly in the test for the thrombin generation methods with or without activated protein C.

Expiration date of 30 months from the date of manufacture with storage at 2 °C / 8 °C.



**Phospholipids** 

#### **Solutions**

# Synthetic Phospholipid Blend II













Reference	Presentation	Format
20-X9115	Vial	1 x 25 mg

Mixture of highly purified procoagulant phospholipids for dilution.



## Informations

Phospholipids constitute a catalytic surface for the enzymatic activation of coagulation factors. Lupus circulating anticoagulants are heterogeneous autoantibodies of the IgG and IgM type directly directed against a variety of anionic phospholipids such as cardiolipin, phosphatidylserine or phosphatidylinositol or against proteins having the capacity to bind to phospholipids such as β2-glycoprotein I (β2 -GPI).

The contribution of phospholipids (PL) does not modify the levels of factors VIII, IX, XI, XII on normal plasmas without deficit nor LA.

The contribution of PL does not modify the levels of factors VIII, IX, XI, XII on the known deficient plasmas with and without LA (isolated constitutional or acquired deficiency) The supply of PL leads to an increase in factors VIII, IX, XI, XII in plasmas with LA.

#### Components

- 1 glass vial x 25 mg

#### Characteristics

DOPE: DOPS: DOPC = 5:3:2 Optimal blend of phospholipids for coagulation. (DOPE = di-oleyl phosphatidyl ethanolamine).





**Phospholipids** 

#### **Solutions**

# Synthetic Procoagulant Phospholipid I













Reference	Presentation	Format	
20-X9113	Vial	1 x 25 mg	

Mixture of highly purified phospholipids for dilution.



## Informations

Phospholipids constitute a catalytic surface for the enzymatic activation of coagulation factors. Lupus circulating anticoagulants are heterogeneous autoantibodies of the IgG and IgM type directly directed against a variety of anionic phospholipids such as cardiolipin, phosphatidylserine or phosphatidylinositol or against proteins having the capacity to bind to phospholipids such as β2-glycoprotein I (β2 -GPI).

The contribution of phospholipids (PL) does not modify the levels of factors VIII, IX, XI, XII on normal plasmas without deficit nor LA. The contribution of PL does not modify the levels of factors VIII, IX, XI, XII on the known deficient plasmas with and without LA (isolated constitutional or acquired deficiency)

The supply of PL leads to an increase in factors VIII, IX, XI, XII in plasmas with LA.

#### Components

- 1 glass vial x 25 mg

#### Characteristics

Proportion of dioleoyl phosphatidyl serine: dioleoyl phosphatidyl choline (DOPS: DOPC) = 3:

Much higher activity and better reproducibility than brain phospholipids.

DOPS: dioleyl phosphatidyl serine DOPC: dioleyl phosphatidyl choline





Reference	Designation Click to go to the product sheet	Equivalence	PM (g/mol)	Km	WEB
Chromogenic su	ubstrate for activated Factor XII (FXIIa)				
61038111	→ pNAPEP-8111	Pefachrome® FXIIa/TH5253	740.7		•
Chromogenic su	bstrates for C1-esterase				
61038703	→ pNAPEP-8703	equivalent Pefachrome® C1E	715,80	23,1 μΜ	•
Chromogenic su	ıbstrates for glandular kallikrein				
61011266	→ pNAPEP-1266	equivalent S-2266™	579.51	1.2 mM	•
Chromogenic su	ıbstrates for plasma kallikrein				
8-080-03	$\rightarrow$ Pefachrome®PK	_	652.70	7.48 µM	•
61011902	→ pNAPEP-1902	equivalent S-2302™	611.5	0.22 mM	₩
Chromogenic su	bstrates for plasmin and plasminogen-SK				
61011703	→ pNAPEP-1703	equivalent S-2403™	561.0	0.35 mM	₩
6101-1751	→ pNAPEP-1751	equivalent S-2251™	551.49	0.40 mM	•
11-251L	→ SPECTROZYME® PL		652.8	35.8 μΜ	•
Chromogenic su	ubstrates for activated protein C (APC)				
61011566	→ pNAPEP-1566	equivalent S-2366™	539	0.20 mM	•
61038902	→ pNAPEP-8902	equivalent Pefachrome® PCa	773.8	0.303 mM	₩
Chromogenic su	ubstrates for thrombin (FIIa)				
61010238	→ pNAPEP-0238	equivalent S-2238™	625.6	7 μΜ	₩
61010216	→ pNAPEP-0216	equivalent Chromozym®TH	639.1	4.18 μΜ	•
61038117	→ pNAPEP-8117	equivalent Pefachrome® TG	542.6	1.95 mM	
61038109	→ pNAPEP-8109	equivalent Pefachrome® TH	638.7		•
		5251			



Reference	Designation Click to go to the pr	oduct sheet Equivalence	PM (g/mol)	Km	WEB
Chromogenic sub	strate for tryptase				
61039035	→ pNAPEP-9035	equivalent Pefachrome® Tryp	634.7	0.014 mM	₩
Chromogenic sub	strates for urokinase plasminogen activa	ator (u-PA)			
61011344	→ pNAPEP-1344	equivalent S-2444™	498.92	0.08 mM	₩
Chromogenic sub	strates for tissue plasminogen activator	(t-PA)			
61011588	→ pNAPEP-1588	equivalent S-2288™	577.50	1.0 mM	
61039101	→ pNAPEP-9101	equivalent Pefachrome® tPA	642.7	0.28 mM	₩
Chromogenic sub	strate for plasmin-streptokinase comple	(			
61038305	→ pNAPEP-8305	equivalent Pefachrome®	680.8	0.4 mM	<b>@</b>
Chromogenic sub	strates for activated Factor IX (FIXa)				
61039502-25	→ pNAPEP-9502	equivalent Pefachrome® FIXa	628.7	1.3 mM	₩
61030968	→ pNAPEP-0968	equivalent Pefachrome® FIXa	660.71	0.997 mM	<b>₩</b>
		3960			
Chromogenic sub	strates for activated Factor VII (VIIa)				
61030779	→ pNAPEP-0779	equivalent Pefachrome® FVIIa	670.8	Km sans FT : 5 mM / Km avec	₩
				FT : 0.97 mM	
	strates for activated Factor X (FXa)				
61011022	→ pNAPEP-1022	equivalent S-2222™	748.3	0.31 mM	
61031025	→ pNAPEP-1025	equivalent CBS 3139™	602.7		
61011032	→ pNAPEP-1032	equivalent S-2732™	797.3	0.35 mM	<b>**</b>
61011065	→ pNAPEP-1065	equivalent S-2765™	714.6	0.1 mM	<b>**</b>
61038503	→ pNAPEP-8503	equivalent Pefachrome® FXa	608.7		<b>─</b>
		5279			
61038506	→ pNAPEP-8506	equivalent Pefachrome®	622.7	0.106 mM	₩
		FXa/LAL 5288			



Reference	Designation	Click to go to the product sheet	Equivalence	PM (g/mol)	Km	WEB
Chromogenic su	ubstrate for trypsin					
61038401	→ pNAPEP-8	401	equivalent Pefachrome® TRY			
			5274			
Chromogenic su	ubstrates for activate	d Factor XI (FXIa)				
61039041	→ pNAPEP-9	041	equivalent Pefachrome® FXIa	728.8	0.266 mM	<b>R</b>
Chromogenic su	ubstrate of Limulus A	mebocyte Lysate (LAL)				
61038506	→ pNAPEP-8	506	equivalent Pefachrome®	622.7	0.106 mM	•
			FXa/LAL 5288			



Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

proteolytic activity of the enzyme.

#### CHROMOGENIC SUBSTRATES

Over 20 years of expertise as manufacturer of the

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are

equivalent to the brand name CHROMOGENIX,

WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with

proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the

pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow

Chromogenic substrate for activated Factor XII (FXIIa)

FXIIa chromogenic substrate

# pNAPEP-8111













Reference	Presentation	Format
61038111	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FXIIa activity in plasma: equivalent of Pefachrome® FXIIa/TH5253.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-CHA-Gly-Arg-pNA, 2AcOH

Molecular Weight (+2AcOH): 740.7 g/mol pNA free ≤ 0.5 %

Purity grade ≥ 95 %



### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

## Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)





Chromogenic substrates for C1-esterase

C1-esterase chromogenic substrate

## **pNAPEP-8703**





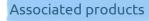












C1 Inhibitor Buffer

### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

C1 INH is a regulatory protein that acts as an inhibitor of various serine proteases in the complement system, the kallikrein-kinin system, the coagulation cascade and in fibrinolysis.



Specific synthetic chromogenic substrate for the measurement of the C1-esterase activity in plasma, used for the determination of C1 INH: equivalent Pefachrome® C1E. The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: CH<sub>3</sub>CO-Lys(Cbo)-Gly-Arg-pNA, AcOH

Chemical structure: C32H45N9O10. AcOH

Chemical name: Methylcarbonyl-lysyl( $\varepsilon$ -benzyloxycarbonyl)-glycyl-arginine-paranitroaniline

monoacetate

Molecular Weight: With AcOH = 715,8 g/mol - without AcOH = 655,7 g/mol

Km: 23.1 µM pNA free  $\leq 0.5 \%$ Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Glandular kallikrein chromogenic substrate

Chromogenic substrates for glandular kallikrein

# pNAPEP-1266



## Associated products

pNAPEP-1902

#### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61011266	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the glandular kallikrein activity: equivalent CHROMOGENIX S-2266™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Val-Leu-Arg-pNA, 2HCl

Chemical structure: C23H38N8O5, 2HCl

Chemical name: H-D-valyl-leucyl-L-arginine-paranitroaniline dihydrochloride

Molecular Weight (+2HCl): 579.51 g/mol

CAS: 64816-14-4 Km: 1.2 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Chromogenic substrates for plasma kallikrein

Plasma kallikrein

## **Pefachrome®PK**





pNAPEP-0238 pNAPEP-0216 pNAPEP-8117



The line of chromogenic peptide substrates is a range of high quality substrates, which allow to test protease serines.

They target enzymes involved in coagulation and fibrinolysis such as thrombin, Factor Xa, Factor XIIa, kallicrein, activated C protein, plasmin and plasminogen-SK.

These are synthetic peptides that react with proteolytic enzymes by releasing a colour that can be followed by spectrophotometry and whose intensity is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
8-080-03	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of plasma kallilrein activity.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

We can supply further packaging on request.

Peptide sequence : H-D-Abu-CHA-Arg-pNA, 2AcOH Molecular Weight (+2AcOH) : 652.70 g/mol

Km: 7,48 µM

pNA free content < 0.5 % Purity grade > 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

## Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids.

Their structures can be protected in N-terminal to reduce undesirable degradation by aminopeptidases.

Their C-terminal ends are modified so that, during the cleavage of the amide bond, a chromogenic group is released.

The most commonly used group is p-nitroaniline (pNA), which absorbs light at a wavelength of 405 nm.







Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

#### CHROMOGENIC SUBSTRATES

Plasmatic kallikrein chromogenic substrate

Chromogenic substrates for plasma kallikrein

Over 20 years of expertise as manufacturer of the

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are

equivalent to the brand name CHROMOGENIX,

WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with

proteolytic enzymes under formation of colour

which can be followed spectrophotometrically and

the intensity of which is proportional to the

proteolytic activity of the enzyme.

pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow

# **pNAPEP-1902**

Format

1 x 25 mg











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•	

Specific synthetic chromogenic substrate for the measurement of plasma kallikein activity in plasma: equivalent CHROMOGENIX S-2302™

Vial

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Pro-Phe-Arg-pNA, 2HCl

Chemical structure: C<sub>26</sub>H<sub>34</sub>N<sub>8</sub>O<sub>5</sub>, 2HCl

61011902

Chemical name: H-D-Prolyl-L-Phenylalanyl-L-Arginine-paranitroaniline dihydrochloride

Molecular Weight with 2HCl: 611.52 g/mol - Without 2HCl: 538.6 g/mol

CAS: 62354-56-7 Km: 0.22 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %





Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)





Over 20 years of expertise as manufacturer of the

pNAPEP® line of chromogenic peptide substrates.

This is a line of high quality substrates, which allow

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa,

kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are

equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with

proteolytic enzymes under formation of colour

which can be followed spectrophotometrically and

the intensity of which is proportional to the

proteolytic activity of the enzyme.

Associated products

testing of serine proteinases.

pNAPEP-1751

SPECTROZYME® PL

Informations

plasminogen-SK.

STAGO.

Chromogenic substrates for plasmin and plasminogen-SK

Plasmin chromogenic substrate

## **DNAPEP-1703**

Format

1 x 25 mg













Reference	Presentatio		
200	. 2-80.		

Specific synthetic chromogenic substrate for the measurement of the plasmi activity and streptokinase activated plasminogen: equivalent CHROMOGENIX S-2403™ The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : pGlu-Phe-Lys-pNA, HCl Chemical structure: C26H32N6O6. HCl

Chemical name: L-Pyroglutamyl-L-Phenylalanyl-L-Lysine-paranitroaniline hydrochloride

Molecular Weight: Without HCl = 524,6 g/mol - With HCl = 561,0 g/mol

Km: 0.35 mM - pNA free  $\leq 0.5 \% - \text{Purity grade} \geq 95 \%$ 





61011703







Vial





#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)





Chromogenic substrates for plasmin and plasminogen-SK

Plasmin chromogenic substrate

# **pNAPEP-1751**

Format

1 x 25 mg











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Vial

6101-1751

Specific synthetic chromogenic substrate for the measurement of the streptokinase activated plasmin and plasminogen activity: equivalent CHROMOGENIX S-2251™ The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Val-Leu-Lys-pNA, 2HCl

Chemical structure: C23H38N6O5, 2HCl

Chemical name: H-D-Valyl-L-Leucyl-L-Lysine-p-Nitroaniline dihydrochloride Molecular Weight with 2HCl: 551.5 g/mol - without 2HCl: 478.6 g/mol

Km: 0.40 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %





# Informations

SPECTROZYME® PL

pNAPEP-1703

Associated products

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)





Chromogenic substrates for plasmin and plasminogen-SK

Plasmin and plasminogen-SK

## SPECTROZYME® PL





Reference	Presentation	Format
11-251L	Vial	50 µmol

Specific synthetic chromogenic substrate for the amidolytic test of plasmin and for reactions in which plasmin is generated or consumed.

Peptide sequence: H-D-Nle-CHA-Lys-pNA, 2AcOH

Molecular Weight (+2AcOH): 652.8 g/mol

Km: 35.8 µM

Extinction coefficient: 9650 M-1.cm-1

Purity: < 0.5% free

pNa Buffer: 20mM Tris, 200mM NaCl, 0.1% PEG 8000 pH7.4

### Advantages

The lyophilized presentation allows greater stability until the expiration date.

## Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Lyophilized substrate which should be stored in the dark at room temperature, after reconstitution, store 1 week at room temperature in the dark, 2 months at 2-8 °C and more than 6 months at -20 °C. Aliquot and freeze and avoid freeze and thaw cycles.



Activated protein C chromogenic substrate

Chromogenic substrates for activated protein C (APC)

# pNAPEP-1566



#### Associated products

pNAPEP-8902

Informations

plasminogène-SK.



Reference	Presentation	Format
61011566	Vial	1 x 25 mg
61011566-50	Flacon	1 x 50 mg

Specific synthetic chromogenic substrate for the measurement of the activated protein C and FXIa in plasma: equivalent CHROMOGENIX S-2366™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : pGlu-Pro-Arg-pNA, HCl Chemical structure :  $C_{22}H_{30}N_8O_6$ , HCl

Chemical name: L-pyroGlutamyl-L-Prolyl-L-Arginine-paranitroaniline hydrochloride

Molecular Weight with HCl: 539.0 g/mol - without HCl: 502,5 g/mol

CAS: 72194-57-1 Km: 0.20 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %



# DIAGNOSTICA STAGO. Ce sont des peptides synthétiques qui réagissent

avec des enzymes protéolytiques en libérant une couleur qui peut être suivie par spectrophotométrie et dont l'intensité est proportionnelle à l'activité protéolytique de l'enzyme.

Cryopep bénéficie d'une expertise de plus de 20

ans en tant que fabricant de la ligne pNAPEP® de

Il s'agit d'une gamme de substrats de haute qualité,

Ils ciblent les enzymes impliquées dans la coaquiation et la fibrinolyse comme la thrombine,

le Facteur Xa, le Facteur XIIa, la kallicréine, la

protéine C activée, la plasmine et le

Certains de nos substrats chromogènes pNAPEP

sont équivalents à ceux de la marque

CHROMOGENIX, WERFEN, PENTAPHARM DSM ou

qui permettent de tester les sérines protéases.

substrats peptidiques chromogènes.

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typiquement, de tels substrats chromogènes sont composés de 3 à 5 acides aminés naturels ou artificiels. Leurs structures peuvent être protégées en N-terminal pour réduire la dégradation indésirable par les aminopeptidases.

Leurs extrémités C-terminales sont modifiées de sorte que, lors du clivage de la liaison amide, un groupe chromogène est libéré.

Le groupe le plus couramment utilisé est la p-nitroaniline (pNA) qui absorbe la lumière à une longueur d'onde de 405 nm.

Stabilité après reconstitution > 1 an (3 ans à partir de la date de fabrication)

Les substrats, après reconstitution avec de l'eau distillée sont stables 3 à 6 mois entre 2°C et 8°C.

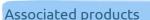


Activated protein C chromogenic substrate

Chromogenic substrates for activated protein C (APC)

# pNAPEP-8902





Pefachrome® PCa

pNAPEP-1566



Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates.

This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference Presentation Format
61038902 Vial 1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of activated protein C activity: equivalent Pefachrome® PCa.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Lys(Cbo)-Pro-Arg-pNA, 2AcOH

Chemical structure: C<sub>31</sub>H<sub>43</sub>N<sub>9</sub>O<sub>7</sub>, 2AcOH

Chemical name : H-D-(γ-carbobenzoxyl)-lysyl-prolyl-arginine-paranitroanilide diacetate salt

Molecular Weight: without 2AcOH = 654.3 g/mol - with 2AcOH = 773.8 g/mol

Km : 0.303 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Chromogenic substrates for thrombin (FIIa)

Thrombin chromogenic substrate

## pNAPEP-0238





pNAPEP-0216	
pNAPEP-8117	
nNΔPFP-8109	

#### Informations

Associated products

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

Reference	Presentation	Format
61010238	Vial	1 x 25 mg

Specific synthetic chromogenic THROMBIN substrate for the measurement of the activity thrombin in plasma (also prothrombin, antithrombin, PF3, heparin) : equivalent CHROMOGENIX S-2238™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations. As we are manufacturer, we can supply you from milligram to gram.

Thrombin (FIIa) substrate

Peptide sequence: H-D-Phe-Pip-Arg-pNA, 2HCl

Chemical structure: C27H36N8O5, 2HCl

Chemical name: H-D-phenylalanyl-L-pipecolyl-L-arginine-paranitroaniline dihydrochloride

Molecular Weight xith 2HCl: 625.6 g/mol - without 2 HCl: 552.6 g/mol

CAS: 115388-96-0 Km: 7 µM -

pNA free ≤ 0.5 %-

Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

## Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon





cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.





Chromogenic substrates for thrombin (FIIa)

Thrombin chromogenic substrate

# pNAPEP-0216





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pNAPEP-0238	
pNAPEP-8117	
nNAPFP-8109	

## Informations

Associated products

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN. PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

Reference	Presentation	Format
61010216	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the activity thrombin in plasma: equivalent Chromozym®TH.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: Tos-Gly-Pro-Arg-pNA, HCl Chemical structure: C26H34N8O7S1, HCl

Chemical name: Chlorhydrate de Tosyl-glycyl-(L)-prolyl-(L)-arginine-paranitroaniline

Molecular Weight with HCl: 639.12 g/mol - without HCl: 602.7 g/mol

Km: 4.18 µM pNA free ≤ 0.5 % Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Chromogenic substrates for thrombin (FIIa)

Thrombin chromogenic substrate

# **pNAPEP-8117**

Format

1 x 25 mg







61038117





pNAPEP-0238	
pNAPEP-0216	
pNAPEP-8109	

## Informations

Associated products

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX. WERFEN. PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

Deference	Desceptation
2°C/	. 2-8°C.

Specific synthetic chromogenic substrate for the measurement of the activity thrombin in plasma with slow cleavage of the substrate: equivalent Pefachrome® TG.

Vial

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram...

Peptide sequence: H-β-Ala-Gly-Arg-pNA, 2AcOH Molecular Weight (+2AcOH): 542.6 g/mol

Km: 1.95 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Chromogenic substrates for thrombin (FIIa)

Thrombin chromogenic substrate

# **pNAPEP-8109**







Associated products	
pNAPEP-0238	
pNAPEP-0216	Specific

## Informations

pNAPEP-8117

Associated products

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX. WERFEN. PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

Refe	erence	Presentation	Format
610	38109	Vial	1 x 25 m

ic synthetic chromogenic substrate for the measurement of the activity thrombin in plasma: equivalent Pefachrome® TH 5251.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-CHA-Ala-Arg-pNA, 2AcOH

Molecular Weight (+2AcOH): 638.7

pNA free ≤ 0.5 % Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

#### **CHROMOGENIC SUBSTRATES**

Chromogenic substrate for tryptase

Tryptase chromogenic substrate

## **pNAPEP-9035**











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Reference	Presentation	Format
61039035	Vial	1 x 25 mg

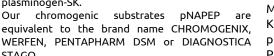
Specific synthetic chromogenic substrate for the measurement of the tryptase activity in plasma: equivalent Pefachrome® Tryp.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: Tos-Gly-Pro-Lys-pNA, AcOH Molecular Weight (+AcOH): 634.7 g/mol

Km: 0.014 mM pNA free  $\leq 0.5 \%$ Purity grade ≥ 95 %



These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

Over 20 years of expertise as manufacturer of the

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and

pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow

### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

#### **CHROMOGENIC SUBSTRATES**

Over 20 years of expertise as manufacturer of the

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are

equivalent to the brand name CHROMOGENIX,

WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with

proteolytic enzymes under formation of colour

which can be followed spectrophotometrically and

the intensity of which is proportional to the

proteolytic activity of the enzyme.

pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow

Chromogenic substrates for urokinase plasminogen activator (u-PA)

Urokinase chromogenic substrate

# pNAPEP-1344









Reference	Presentation	Format
61011344	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of urokinase activity in plasma: equivalent CHROMOGENIX S-2444™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: pGlu-Gly-Arg-pNA, HCl Chemical structure: C<sub>19</sub>H<sub>26</sub>N<sub>8</sub>O<sub>6</sub>, HCl

Chemical name: L-pyroglutamyl-L-glycyl-L-arginine-paranitroaniline hydrochloride

Molecular Weight (+HCl): 498.92 g/mol

CAS: 115389-02-1 Km: 0.08 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %



#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)



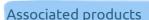


Chromogenic substrates for tissue plasminogen activator (t-PA)

t-PA chromogenic substrate

# pNAPEP-1588





pNAPEP-9101



Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61011588	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the tissue plasminogen activator (t-PA) and other serine protease activity in plasma : equivalent CHROMOGENIX S-2288™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Ile-Pro-Arg-pNA, 2HCl

Chemical structure: C23H36N8O5, 2HCl

Chemical name: H-D-Isoleucyl-L-prolyl-L-arginine-paranitroaniline dihydrochloride

Molecular Weight with 2HCl: 577.5 g/mol - without 2HCl: 504.6 g/mol

Km: 1.0 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







pNAPEP-1588

Informations

plasminogen-SK.

testing of serine proteinases.

#### **CHROMOGENIC SUBSTRATES**

Chromogenic substrates for tissue plasminogen activator (t-PA)

t-PA chromogenic substrate

# **pNAPEP-9101**

**Format** 

1 x 25 mg





Over 20 years of expertise as manufacturer of the

This is a line of high quality substrates, which allow

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa,

kallikrein, activated protein C, plasmin and

equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and

the intensity of which is proportional to the

proteolytic activity of the enzyme.

chromogenic substrates pNAPEP are

pNAPEP® line of chromogenic peptide substrates.



61039101







Vial

	•••	
Reference	Presentation	

Specific synthetic chromogenic substrate for the measurement of the t-PA activity in plasma.

Different sensitivity for sc-t-PA (native, single chain) and tc-t-PA (active dual chain): equivalent Pefachrome® tPA.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: CH<sub>3</sub>SO<sub>2</sub>-D-CHA-Gly-Arg-pNA, AcOH

Chemical structure: C24H38N8O7S, C2H4O2

Chemical name: Methanesulfonyl-D-cyclohexylalanin-glycyl-L-arginine-paranitroanilin acetate

Molecular Weight (+AcOH): 642.7 g/mol

Km: 0.28 mM - pNA free content ≤ 0.5 % - Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

#### **CHROMOGENIC SUBSTRATES**

Chromogenic substrate for plasmin-streptokinase complex

Over 20 years of expertise as manufacturer of the

This is a line of high quality substrates, which allow

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa,

kallikrein, activated protein C, plasmin and

pNAPEP® line of chromogenic peptide substrates.

Plasmin streptokinase complex chromogenic substrate

# **DNAPEP-8305**













Reference	Presentation	Format
61038305	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the plasmin-streptokinase complex activity in plasma.

Determination of plasminogen levels: equivalent Pefachrome® PL-Strept.

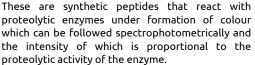
The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Nle-CHA-Arg-pNA, 2AcOH Molecular Weight (+2AcOH): 680.8 g/mol

Km: 0.4 mM pNA free  $\leq 0.5 \%$ Purity grade ≥ 95 %

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA



#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

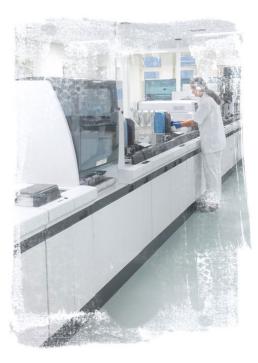
#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)





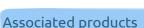


Chromogenic substrates for activated Factor IX (FIXa)

FIXa chromogenic substrate

# pNAPEP-9502





pNAPEP-0968



Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61039502-25	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FIXa activity in plasma: equivalent Pefachrome® FIXa. The chromogenic peptides are also used in quality control of pharmaceutical and other preparations. As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: CH<sub>3</sub>SO<sub>2</sub>-D-CHG-Gly-Arg-pNA, AcOH

Chemical structure: C23H36N8O7S1, AcOH

Chemical name: Methylsulfonyl-(D)-cyclohexylglycyl-glycyl-arginine-paranitroaniline

monoacetate

Molecular Weight with AcOH: 628.70 g/mol - without AcOH: 568.6 g/mol

Km : 1.3 mM - pNA free  $\leq$  0.5 % - Purity grade  $\geq$  95 %

## Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

## Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)







Chromogenic substrates for activated Factor IX (FIXa)

FIXa chromogenic substrate

# pNAPEP-0968



## Associated products

pNAPEP-9502

#### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61030968	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FIXa activity in plasma: equivalent Pefachrome® FIXa 3960.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: H-D-Leu-Phg-Arg-pNA, 2AcOH

Chemical structure: C26H36N8O5, 2AcOH

Chemical name: H-D-leucyl-L-phenylglycyl-L-arginine-paranitroaniline diacetate Molecular Weight with 2AcOH = 660.71 g/mol - without 2AcOH = 540.6 g/mol

Km: 0.997 mM

pNA free content < 0.5 %

pNA free ≤ 0.5 %

Purity grade  $\geq$  95 % Reconstitute the vial according to recommendations of the certificate of analysis of the lot indicated on the vial.

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

After reconstitution, the substrates are stable for 3 to 6 months between 2°C and 8°C.







Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

proteolytic activity of the enzyme.

#### CHROMOGENIC SUBSTRATES

Over 20 years of expertise as manufacturer of the

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are

equivalent to the brand name CHROMOGENIX,

WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with

proteolytic enzymes under formation of colour

which can be followed spectrophotometrically and the intensity of which is proportional to the

pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow

Chromogenic substrates for activated Factor VII (VIIa)

FVIIa chromogenic substrate

### pNAPEP-0779

**Format** 

1 x 25 mg





61030779







Vial

Reference	Presentation
2 0	

Specific synthetic chromogenic substrate for the measurement of the FVIIa activity in plasma: equivalent Pefachrome® FVIIa.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: CH<sub>3</sub>SO<sub>2</sub>-D-CHA-But-Arg-pNA, AcOH

Chemical structure: C26H42N8O7S, AcOH

Chemical name:

Methanesulfonyl-D-cyclohexylalanyl-L-α-aminobutyryl-L-arginine-paranitroaniline acetate

Molecular Weight with AcOH: 670.77 g/mol - without AcOH: 610.8 g/mol

CAS: BDBM13777

Km:  $5.0 \text{ mM} - \text{TF} / 5.07 \text{ mM} + \text{TF} - \text{pNA} \text{ free} \le 0.5 \% - \text{Purity grade} \ge 95 \%$ 



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Chromogenic substrates for activated Factor X (FXa)

FXa chromogenic substrate

### pNAPEP-1022



### Associated products

pNAPEP-1025 pNAPEP-1032 pNAPEP-1065

#### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61011022	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FXa activity, also sensitive to trypsin: equivalent CHROMOGENIX S-2222™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: Bz-Ile-Glu(OR)-Gly-Arg-pNA,HCl (R=H 50%; R=Me 50%) Chemical structure: C<sub>32</sub>H<sub>43</sub>N<sub>9</sub>O<sub>9</sub>, HCl (R=H) / C<sub>33</sub>H<sub>45</sub>N<sub>9</sub>O<sub>9</sub>, HCl (R=CH<sub>3</sub>)

Chemical name: N-Benzoyl-L-isoleucyl-L-glutamyl-glycyl-L-arginine-para-nitroaniline

hydrochloride and

N-Benzoyl-L-isoleucyl-L-glutamyl(methyl ester)-glycyl-L-arginine-para-nitroaniline hydrochloride

CAS: 59068-47-2

Molecular Weight (+HCl): 734.3 (R=H) and 748.3 (R=CH $_3$ ) g/mol

Km: 0.31 mM - pNA free  $\leq 0.5 \% - \text{Purity grade} \geq 95 \%$ 

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety

Data Sheet (MSDS) supplied.

Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Chromogenic substrates for activated Factor X (FXa)

FXa chromogenic substrate

### **PNAPEP-1025**







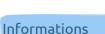


RUO	2°C / 8°C	<mark>Бноіs</mark> 2-8°С	***	

pNAPEP-1022	
pNAPEP-1032	
pNAPEP-1065	

#### Reference Presentation Format 61031025 Vial 1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FXa activity in plasma: equivalent CBS 3139™.



Associated products

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow

testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN. PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: CH<sub>3</sub>SO<sub>2</sub>-(D)Leu-Gly-Arg-pNA, AcOH

Chemical structure: C<sub>21</sub>H<sub>34</sub>N<sub>8</sub>O<sub>7</sub>S, AcOH

Chemical name: Methanesulfonyl-D-leucyl-glycyl-L-arginine-paranitroaniline acetate

Molecular Weight with AcOH: 602.7 g/mol - without AcOH: 542.6 g/mol

pNA free  $\leq 0.5 \%$ Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Chromogenic substrates for activated Factor X (FXa)

FXa chromogenic substrate

### pNAPEP-1032



### Associated products

pNAPEP-1022 pNAPEP-1025

pNAPEP-1065

#### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61011032	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the Fxa activity in plasma: equivalent CHROMOGENIX S-2732™

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : Suc-Ile-Glu(γPip)-Gly-Arg-pNA, HCl

Chemical structure: C34H52N10O10, HCl

Chemical name: Succinyl-L-isoleucyl-L-(γ-piperidyl)glutamyl-glycyl-L-arginine-paranitroaniline

hydrochloride

Molecular Weight with HCl: 797.30 g/mol - without HCl: 760.8 g/mol

CAS: 1379822-04-4

Km: 0.35 mM - pNA free  $\leq 0.5 \% - \text{Purity grade} \geq 95 \%$ 

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Discount according to quantities.

### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Chromogenic substrates for activated Factor X (FXa)

FXa chromogenic substrate

### pNAPEP-1065





pNAPEP-1025 pNAPEP-1032

#### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61011065	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of FXa activity in plasma, also sensitive to trypsin: equivalent CHROMOGENIX S-2765™. pNAPEP-1065 is suitable for measuring FXa inhibition in heparin anti-FXa assays and antithrombin anti-FXa assays. The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : Z-(D)-Arg-Gly-Arg-pNA, 2HCl

Chemical structure : C28H39N11O7, 2HCl

Chemical structure: N-a-benzyloxycarbonyl-D-arginyl-L-glycyl-L-arginine-paranitroaniline

dichloride

Molecular Weight (+2HCl): 714.60 g/mol

CAS: 113711-77-6

Km : 0.1mM - pNA free ≤ 0.5 % - Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Chromogenic substrates for activated Factor X (FXa)

FXa chromogenic substrate

### **PNAPEP-8503**



Cryopep /

### Associated products

pNAPEP-1025

#### Informations

pNAPEP-1032

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61038503	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FXa activity in plasma: equivalent Pefachrome® FXa 5279.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : CH3OCO-D-CHG-Gly-Arg-pNA, AcOH

Chemical structure : C24H36N8O7, C2H4O2

Chemical name: Methoxycarbonyl-D-cyclohexylglycyl-glycyl-arginine-paranitroanilide acetate

Molecular Weight (+AcOH): 608.7 g/mol

pNA free ≤ 0.5 % Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

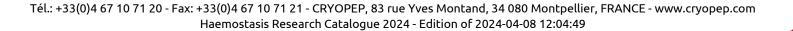
Storage in a closer container, protected from moisture, in the dark at +2/+8°C.

Shipment of product does not require cooling during the time of transportation.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between  $2^{\circ}$ C and  $8^{\circ}$ C.



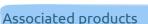


Chromogenic substrates for activated Factor X (FXa)

FXa chromogenic substrate / LAL

### pNAPEP-8506





Pefachrome® FXa 2732

Pefachrome® FXa 5277

Pefachrome® FXa 5279



Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61038506	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FXa and Limulus Amebocyte Lysate (LAL) activity in plasma: equivalent Pefachrome® FXa/LAL 5288. The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : CH₃OCO-D-CHA-Gly-Arg-pNA, AcOH

Chemical structure: C25H36N8O7, AcOH

Chemical name: Methyloxycarbonyl-(D)-cyclohexylalanyl-glycyl-arginine-p-nitroanilide

monoacetate

Molecular Weight: without AcOH = 563.1 g/mol - with AcOH = 622.7 g/mol

Km : 0.106 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied.
Material safety Data Sheet (MSDS) supplied.
Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Informations

plasminogen-SK.

STAGO.

testing of serine proteinases.

#### CHROMOGENIC SUBSTRATES

Chromogenic substrate for trypsin

Over 20 years of expertise as manufacturer of the

This is a line of high quality substrates, which allow

Their focus is on enzymes involved in coagulation

and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are

equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and

the intensity of which is proportional to the

proteolytic activity of the enzyme.

pNAPEP® line of chromogenic peptide substrates.

Trypsin chromogenic substrate

### pNAPEP-8401

**Format** 

1 x 25 mg













Reference	Presentation
61038401	Vial

Specific synthetic chromogenic substrate for the measurement of the activity of trypsin in plasma: equivalent Pefachrome® TRY 5274.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: Cbo-Val-Gly-Arg-pNA, AcOH

DNA free ≤ 0.5 % Purity grade ≥ 95 %



#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.





Chromogenic substrates for activated Factor XI (FXIa)

FXIa chromogenic substrate

### pNAPEP-9041



### Associated products

pNAPEP-1022 pNAPEP-1025 pNAPEP-1032

#### Informations

Over 20 years of expertise as manufacturer of the pNAPEP® line of chromogenic peptide substrates. This is a line of high quality substrates, which allow testing of serine proteinases.

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa, kallikrein, activated protein C, plasmin and plasminogen-SK.

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA STAGO.

These are synthetic peptides that react with proteolytic enzymes under formation of colour which can be followed spectrophotometrically and the intensity of which is proportional to the proteolytic activity of the enzyme.



Reference	Presentation	Format
61039041	Vial	1 g

Specific synthetic chromogenic substrate for the measurement of FXIa activity in plasma: equivalent Pefachrome® FXIa.

The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence : Z-Aad-Pro-Arg-pNA, AcOH Molecular Weight (+AcOH) : 728.8 g/mol

Km : 0.266 mM pNA free ≤ 0.5 % Purity grade ≥ 95 %

#### Advantages

Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Prolonged stability following reconstitution (> 3 months).

Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Chromogenic substrate of Limulus Amebocyte Lysate (LAL)

Over 20 years of expertise as manufacturer of the

pNAPEP® line of chromogenic peptide substrates.

This is a line of high quality substrates, which allow

Their focus is on enzymes involved in coagulation and fibrinolysis for thrombin, Factor Xa, Factor XIIa,

kallikrein, activated protein C, plasmin and

Our chromogenic substrates pNAPEP are equivalent to the brand name CHROMOGENIX, WERFEN, PENTAPHARM DSM or DIAGNOSTICA

These are synthetic peptides that react with

proteolytic enzymes under formation of colour

which can be followed spectrophotometrically and

the intensity of which is proportional to the

proteolytic activity of the enzyme.

Pefachrome® FXa 2732 Pefachrome® FXa 5277

Pefachrome® FXa 5279

testing of serine proteinases.

Informations

plasminogen-SK.

STAGO.

FXa chromogenic substrate / LAL

### pNAPEP-8506











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Associated products	Reference	Presentati

Rererence	Presentation	Format
61038506	Vial	1 x 25 mg

Specific synthetic chromogenic substrate for the measurement of the FXa and Limulus Amebocyte Lysate (LAL) activity in plasma: equivalent Pefachrome® FXa/LAL 5288. The chromogenic peptides are also used in quality control of pharmaceutical and other preparations.

As we are manufacturer, we can supply you from milligram to gram.

Peptide sequence: CH3OCO-D-CHA-Gly-Arg-pNA, AcOH

Chemical structure: C25H36N8O7, AcOH

Chemical name: Methyloxycarbonyl-(D)-cyclohexylalanyl-glycyl-arginine-p-nitroanilide

monoacetate

Molecular Weight: without AcOH = 563.1 g/mol - with AcOH = 622.7 g/mol

Km: 0.106 mM pNA free  $\leq 0.5 \%$ Purity grade ≥ 95 %



Package Inserts, certificate of analysis supplied. Material safety Data Sheet (MSDS) supplied. Discount according to quantities.

#### Characteristics

Typically, such chromogenic substrates are composed of 3 to 5 natural or artificial amino acids. They may be N-terminally protected to reduce undesired degradation by aminopeptidases.

On their C-termini they are modified so that upon cleavage of the amide bond a chromogenic group is released. Most commonly used groups are the p-nitroaniline (pNA) which absorbs light of the wavelength of 405 nm.

Stability after reconstitution > 1 year (3 years from date of manufacture)

The substrates, after reconstitution with distilled water, are stable for 3 to 6 months between 2°C and 8°C.







Reference	Designation Click to go to the product sheet	Km / Kcat	PM (g/mol)	WEB
Fluorogenic AM	C substrates for thrombin			
8-081-19	→ Pefafluor® TH - 2AcOH	Km : 1.93 μM / Kcat : 53.9 s-¹		•
8-801058	→ Pefafluor® TH - HCl	_	616.07	•



Fluorogenic AMC substrates for thrombin

### Pefafluor® TH - 2AcOH











Reference	Presentation	Format
8-081-19	Vial	1 x 25 mg

AMC-coupled thrombin fluorogenic substrate. Sequence: H-D-CHA-Ala-Arg-AMC, 2AcOH Chemical formula: C28H41N7O5, 2 C2H4O2

MW(Da): 675.8

Km: 1.93 µM / Kcat: 53.9 s-1

#### Advantages

Inserts and certificates of analysis provided. Safety Data Sheets (SDS) provided. Prolonged stability after reconstitution (> 3

months).

Discount applicable according to quantities.

#### Characteristics

Fluorogenic substrates are synthetic peptides that react with proteolytic enzymes by releasing a colour that can be followed by spectrophotometry and whose intensity is proportional to the proteolytic activity of the enzyme.

Typically, such substrates are composed of 3 to 5 natural or artificial amino acids.

Their structures can be protected in N-terminal to reduce undesirable degradation by aminopeptidases. Their C-terminal ends are modified so that, when the amide bond is cleaved, a fluorogen group is released.

The most commonly used group is 7-amino-4-methylcoumarin (AMC) with 342 nm wavelength excitation and 440 nm wavelength emission.



Fluorogenic AMC substrates for thrombin

### Pefafluor® TH - HCl













#### Associated products

Pefafluor® TH - 2AcOH

Reference	Presentation	Format
8-801058	Vial	1 x 25 mg

#### AMC-coupled thrombin substrate.

Sequence: Z-Gly-Gly-Arg-AMC, HCl

MW(Da): 616,07

#### Advantages

Inserts and certificates of analysis provided. Safety Data Sheets (SDS) provided. Prolonged stability after reconstitution (> 3 months).

#### Characteristics

The line of fluorogenic peptide substrates is a line of high-quality substrates that allow the testing of protease serines. They target enzymes involved in coagulation and fibrinolysis such as thrombin, Factor Xa, Factor XIIa, kallikrein, activated C protein, plasmin and plasminogen-SK.

Fluorogenic substrates are synthetic peptides that react with proteolytic enzymes by releasing a colour that can be followed by spectrophotometry and whose intensity is proportional to the proteolytic activity of the enzyme.

Typically, such substrates are composed of 3 to 5 natural or artificial amino acids. Their structures can be protected in N-terminal to reduce undesirable degradation by aminopeptidases. Their C-terminal ends are modified so that, when the amide bond is cleaved, a fluorogen group is released. The most commonly used group is 7-amino-4-methylcoumarin (AMC) with 342 nm wavelength excitation and 440 nm wavelength emission.



Reference	Designation	Click to go to the product sheet	PM (g/mol)	Km	Km / Kcat	WEB
Fluorogenic ANS	SN substrate for Plas	min				
9-SN-5	→ Fluorogenic	substrate ANSN for plasmin	786.6	130 µM	3.7 s-1	
Fluorogenic ANS	SN substrate for Fact	or VIIa / VIIa-TF				
9-SN-17c	→ Fluorogenic	substrate ANSN FVIIa/VIIa-TF	751.76	de 102 à 186 μM		
Fluorogenic ANS	SN substrate for Fact	or Xa				
9-SN-7		substrate ANSN for Factor Xa	682.8	de 125 μM		₩
Fluorogenic ANS	SN substrate for PCa					
9-SN-54		substrate ANSN for PCa	746.98	3.9 µM		•
Fluorogenic ANS	SN Substrate for t-PA					
9-SN-18		substrate ANSN for t-PA	782.92	71 µM		•
Fluorogenic ANS	SN substrates for thro	ombin (FIIa)				
9-SN-17a		substrate ANSN for thrombin and FVIIa	777.81	0.4 μΜ		
9-SN-20	→ Fluorogenic	substrate ANSN for thrombin	750.9	17 μM		•
9-SN-59	→ Fluorogenic	substrate ANSN for thrombin	703.73	2 μΜ		₩
Fluorogenic ANS	SN substrate for Fact	or XIa				
9-SN-13a	<u> </u>	substrate ANSN for Factor XIa (LPR)	721.74	75 μM		₩
9-SN-45	→ Fluorogenic	substrate ANSN for Factor XIa (EGR)	724.6	225 μM		•



Informations

stable for over one year.

#### **ANSN FLUOROGENIC SUBSTRATES**

Fluorogenic ANSN substrate for Plasmin

The kinetic properties identified on the following page will aid in the selection of an appropriate

substrate. The ANSN-based substrates are provided as 10 mM stock solutions in DMSO. Assays are

typically conducted in physiologic buffers

containing Hepes or Tris, with substrate

concentrations ranging from 1 to 100 µM. The

relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength. Light artifacts can be

minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock

substrate solutions in DMSO could remain frozen at

4° C or colder, and should be protected from light.

Under these conditions the compounds will remain

### Fluorogenic substrate ANSN for plasmin











Reference	Presentation	Format
9-SN-5	Vial	1 mg



Molecular weight (Da): 786.6 Concentration: 7.9 mg/mL

Km: 130 µM Kcat: 3.7 s-1

Buffer formulation: Dimethyl sulfoxide (DMSO)



Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates. Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Informations

#### **ANSN FLUOROGENIC SUBSTRATES**

Fluorogenic ANSN substrate for Factor VIIa / VIIa-TF

### Fluorogenic substrate ANSN FVIIa/VIIa-TF









Reference	Presentation	Format
9-SN-17c	Vial	1 mg

Sequence: D-FPR-ANSNH-C4H9, 2HCl

MW(Da): 751.76

Km FVIIa: 186 µM - Kcat: 0.11 s-1 Km FVIIa/FT: 102 µM - Kcat: 2.7 s-1 Km PCa: 53 µM - Kcat: 4 s-1

#### Characteristics

Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates.

Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.



Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM. The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

The kinetic properties identified on the following page will aid in the selection of an appropriate

substrate. The ANSN substrates have proved to be

Although the substrate hydrolysis rates are

relatively slow for FVIIa alone, only a few

compounds like compound SN-17a exhibit a large change in kcat when tissue Factor is incorporated into the assay system. The ANSN-based substrates

are provided as 10 mM stock solutions in DMSO.

especially useful for the analyses of FVIIa.

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light. Under these conditions the compounds will remain stable for over one year.



Fluorogenic ANSN substrate for Factor Xa

### Fluorogenic substrate ANSN for Factor Xa









Reference	Presentation	Format
9-SN-7	Vial	1 mg

#### Informations

The kinetic properties identified on the following page will aid in the selection of an appropriate substrate. The ANSN substrates have proved to be especially useful for the analyses of FVIIa. Although the substrate hydrolysis rates are relatively slow for FVIIa alone, only a few compounds like compound SN-17a exhibit a large change in kcat when tissue Factor is incorporated into the assay system.

The ANSN-based substrates are provided as 10 mM stock solutions in DMSO. Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM.

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light. Under these conditions the compounds will remain stable for over one year.

Sequence: Mes-D-LGR-ANSN(C2H5), 2HCl

MW(Da): 682.8

Km Flla: 31 µM - Kcat: 0.63 s-1 Km FVIIa: 180 µM - Kcat: 0.007 s-1 Km FVIIa/FT: 200 µM - Kcat: 0.79 s-1 Km FXa: 125 µM - Kcat: 36 s-1 Km FXIa: 580 µM - Kcat: 15 s-1 Km PCa: 113 µM - Kcat: 0.055 s-1



Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates. Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group.

Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Fluorogenic ANSN substrate for PCa

### Fluorogenic substrate ANSN for PCa











Reference	Presentation	Format
9-SN-54	Vial	1 mg



Informations

The kinetic properties identified on the following page will aid in the selection of an appropriate substrate. The ANSN-based substrates are provided as 10 mM stock solutions in DMSO. Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM.

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

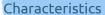
Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light.

Under these conditions the compounds will remain stable for over one year.

Sequence: BOC-D-VLR-ANSNH-C<sub>4</sub>H<sub>9</sub>

MW(Da): 746.98

Km Flla: 19 µM - Kcat: 0.055 s-1 Km FVIIa: 42 µM - Kcat: 0.007 s-1 Km FVIIa/FT: 170 µM - Kcat: 1.6 s-1 Km FXa: 19 µM - Kcat: 0.055 s-1 Km PCa: 3.9 µM - Kcat: 2.1 s-1



Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates.

Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Fluorogenic ANSN Substrate for t-PA

The kinetic properties identified on the following page will aid in the selection of an appropriate

substrate. The ANSN-based substrates are provided

Assays are typically conducted in physiologic

buffers containing Hepes or Tris, with substrate

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the

The stock substrate solutions in DMSO could

remain frozen at 4° C or colder, and should be

protected from light. Under these conditions the

as 10 mM stock solutions in DMSO.

concentrations ranging from 1 to 100 µM.

### Fluorogenic substrate ANSN for t-PA











Reference	Presentation	Format
9-SN-18	Vial	1 mg



MW(Da): 782.92

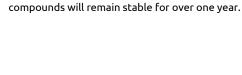
Km Flla: 3.7 µM - Kcat: 44 s-1 Km FVIIa: 50 µM - Kcat: 0.008 s-1 Km FVIIa/FT: 217 µM - Kcat: 0.88 s-1 Km t-PA: 71 µM - Kcat: 1.03 s-1



#### Characteristics

Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates.

Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.



excitation wavelength.

emission beam.

Informations



Fluorogenic ANSN substrates for thrombin (FIIa)

### Fluorogenic substrate ANSN for thrombin and **FVIIa**









Reference	Presentation	Format
9-SN-17a	Vial	1 mg

Sequence: D-FPR-ANSNH-C6H11, 2HCl

MW(Da): 777.81

Km FIIa: 0.4 µM - Kcat: 17 s-1 Km FVIIa: 150 µM - Kcat: 0.05 s-1 Km FVIIa/FT: 330 µM - Kcat: 804 s-1

Km FXa : 150 µM - Kcat 0.32 s-1 Km PCa : 7.8 µM - Kcat : 6.6 s-1 Km t-PA : 36 µM - Kcat : 0.074 s-1

#### Informations

Associated products

Fluorogenic substrate ANSN for thrombin Fluorogenic substrate ANSN for thrombin

The kinetic properties identified on the following page will aid in the selection of an appropriate substrate. The ANSN substrates have proved to be especially useful for the analyses of FVIIa.

Although the substrate hydrolysis rates are relatively slow for FVIIa alone, only a few compounds like compound SN-17a exhibit a large change in kcat when tissue Factor is incorporated into the assav system. The ANSN-based substrates are provided as 10 mM stock solutions in DMSO.

Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM. The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light. Under these conditions the compounds will remain stable for over one vear.

#### Characteristics

Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates. Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.



Fluorogenic ANSN substrates for thrombin (FIIa)

### Fluorogenic substrate ANSN for thrombin





Fluorogenic substrate ANSN for thrombin and FVIIa

Fluorogenic substrate ANSN for thrombin

#### Informations

The kinetic properties identified on the following page will aid in the selection of an appropriate substrate.

The ANSN-based substrates are provided as 10 mM stock solutions in DMSO. Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM.

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light. Under these conditions the compounds will remain stable for over one year.



Reference	Presentation	Format
9-SN-20	Vial	1 mg

Sequence: Boc-L-FPR-ANSNH-C<sub>2</sub>H<sub>5</sub> Formulation: Dimethyl sulfoxide (DMSO)

MW(Da): 750.9

Km FIIa : 17 μM - Kcat : 58 s-1 Km FXa : 100 μM - Kcat : 0.31 s-1 Km PCa : 40 μM - Kcat : 2.2 s-1 Km t-PA : 47 μM - Kcat : 0.011 s-1



Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates. Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Fluorogenic ANSN substrates for thrombin (FIIa)

### Fluorogenic substrate ANSN for thrombin













Asso	ciate	d pro	ducts
		- P	

Fluorogenic substrate ANSN for thrombin and FVIIa

Fluorogenic substrate ANSN for thrombin



The kinetic properties identified on the following page will aid in the selection of an appropriate

The ANSN-based substrates are provided as 10 mM stock solutions in DMSO. Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM.

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam. The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light. Under these conditions the compounds will remain stable for over one year.

Reference	Presentation	Format
9-SN-59	Vial	1 mg

Sequence: D-VPR-ANSNH-C4H9, 2HCl

MW(Da): 703.73

Km Flla: 2 µM - Kcat: 110 s-1 Km FVIIa: 89 µM - Kcat: 0.019 s-1 Km FVIIa/FT: 52 µM - Kcat: 0.76 s-1 Km FXa: 160 µM - Kcat: 3.3 s-1 Km FXIa: 520 µM - Kcat: 92 s-1 Km PCa: 54 µM - Kcat: 72 s-1 Km t-PA: 110 µM - Kcat: 0.71 s-1

#### Characteristics

Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates.

Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Fluorogenic ANSN substrate for Factor XIa

### Fluorogenic substrate ANSN for Factor XIa (LPR)









KUU	-25°C.∕	

Associated products

Fluorogenic substrate ANSN for Factor XIa (EGR)

#### Informations

The kinetic properties identified on the following page will aid in the selection of an appropriate substrate.

The ANSN-based substrates are provided as 10 mM stock solutions in DMSO.

Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM.

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength.

Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam.

The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light.

Under these conditions the compounds will remain stable for over one year.

#### Presentation Format Reference Vial 9-SN-13a 1 ma

Sequence: D-LPR-ANSNH-C3H7, 2HCl

MW(Da): 721.74

Km Flla: 0.5 µM - Kcat: 19 s-1 Km FVIIa: 300 µM - Kcat: 0.07 s-1 Km FVIIa/FT: 300 µM - Kcat: 4.5 s-1 Km FXa: 171 µM - Kcat: 3.3 s-1 Km FXIa: 75 µM - Kcat: 53 s-1 Km PCa: 45 µM - Kcat: 52 s-1 Km t-PA: 98 µM - Kcat: 0.31 s-1

#### Characteristics

Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates. Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Fluorogenic ANSN substrate for Factor XIa

### Fluorogenic substrate ANSN for Factor XIa (EGR)













### Associated products

Fluorogenic substrate ANSN for Factor XIa (LPR)

#### Informations

The kinetic properties identified on the following page will aid in the selection of an appropriate substrate. The ANSN-based substrates are provided as 10 mM stock solutions in DMSO.

Assays are typically conducted in physiologic buffers containing Hepes or Tris, with substrate concentrations ranging from 1 to 100 µM.

The relative change in fluorescence is monitored at a 470 nm emission wavelength with a 352 nm excitation wavelength. Light artifacts can be minimized by employing a 390 to 450 nm long-pass cutoff filter in the emission beam.

The stock substrate solutions in DMSO could remain frozen at 4° C or colder, and should be protected from light. Under these conditions the compounds will remain stable for over one year.

Reference	Presentation	Format
9-SN-45	Vial	1 mg

Séquence: L-EGR-ANSNH-C<sub>3</sub>H<sub>7</sub>, 2HBr

MW(Da): 724.6

Km Flla: 100 µM - Kcat: 2.5 s-1 Km FXa: 110 µM - Kcat: 0.2 s-1 Km FXIa: 225 µM - Kcat: 82 s-1 Km PCa: 440 µM - Kcat: 17 s-1

#### Characteristics

Substrates containing the fluorescent reporter group 6-amino-1-naphthalene-sulfonamide (ANSN) are useful compounds for monitoring the enzyme activity of various serine proteases. In this class of is compounds, the ANSN reporter group linked (in the R1 position) to short tri-peptide sequences. The peptide sequences are designed to optimize the interaction between the enzyme and substrate. Additional components which may be added to the R2 and R3 positions reflect changes in the P' subsite positions, and generally affect the kinetic parameters of the substrates.

Compounds which are effective substrates are hydrolyzed between the tri-peptide and the ANSN group. Once cleaved from the peptide moiety, the ANSN group exhibits about a 1000 fold increase in relative fluorescence.





Reference	Designation	Click to go to the product sheet	Formulation	WEB
Sample collection to	ubes			
25-18004	→ BAPA Tube	e T-TAS® 01		•
9-SCAT-27-1.8/5	→ Special CT	I collection tubes	11 mM Citrate et 50 μg/mL CTI (final)	
9-SCAT-ACT	→ Collection t	tubes with draw volume 2 mL	6 mg kaolin/mL de sang	•
9-SCAT-I-3	→ Special col	lection tubes PPACK Aprotinin / EDTA	25 μM PPACK, 200 KIU/mL aprotinine, 4,5 mM EDTA, 0.1% Mannitol (p/v)	•
9-SCAT-II-3	→ Special col	lection tubes PPACK Na Citrate / Mannitol	25 μM PPACK, 11 mM citrate de sodium, 0.1% Mannitol (p/v)	•
9-SCAT-875B-3	→ Special col	lection tubes 75µM PPACK D-Mannitol	75 μM PPACK (Phe-Pro-Arg-chloromethylketone), 0.1% D-Mannitol (p/v)	₩



Sample collection tubes

**Analyzers** 

### **BAPA Tube T-TAS® 01**





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ASSO	cıa	tea	DIO	ducts

T-TAS® 01

Barcode Scanner T-TAS® 01

HD Chip T-TAS® 01

Reference Presentation Format
25-18004 Consumables 1 x 50 tubes

The BAPA Tube for T-TAS® 01 is intended to be used for the collection, transport and storage of blood samples used as part of the T-TAS® 01 System for PL Chip.



#### Informations

Benzylsulfonyl-D-Arg-Pro-4-amdinobenzylamid (BAPA) is a potent synthetic anticoagulant which inhibits Factor Xa and thrombin.

A complex web of biochemical and physical reactions between platelets and clotting factors at the site of vascular injury is required to achieve hemostasis.

Under flow conditions, platelet activation and coagulation processes are dynamically intertwined with each other affected by platelets, coagulation factors and their various inhibitors and activators.

#### Components

- 1 box x 50 collection tubes 3 mL

#### Characteristics

Measurements with the T-TAS® 01 system involve evaluation of biological activity and depend on the quality of the blood collection.

Blood samples collected for analysis with the PL Chip should only be collected with the BAPA tube specified for T-TAS® 01.

50 tubes of 3 mL containing the spray-dried anticoagulant BAPA.

The concentration indicated in the BAPA tube for a blood sample is  $\geq 50 \mu g / mL$ .





Sample collection tubes

### **Special CTI collection tubes**



### Associated products

Collection tubes with draw volume 2 mL

Special collection tubes PPACK Aprotinin / EDTA

Special collection tubes PPACK Na Citrate / Mannitol



Many non-routine tests and applications which require the collection of blood or other body fluids, also require the use of special anti-coagulant or proteinase inhibitor cocktails to preserve the integrity of the sample. Good examples of such tests include the measurements of Fibrinopeptide-A (FPA), Prothrombin Fragment 1•2 (F1•2), Fibrinogen Degradation Products (FDP) and the Thrombin/Antithrombin III complex (TAT), all of which are highly influenced by persistent protease activity in blood or plasma samples.







Reference	Presentation	Format
9-SCAT-27-1.8/5	Consumables	1 x 2 mL
9-SCAT-27-2.7/5	Consumables	1 x 3 mL
9-SCAT-27-4.5/5	Consumables	1 x 5 mL



The minimum order quantity is 100 tubes. Discount according to quantities.



These tubes (our SCAT-27 line) simplify the process of conducting TF-dependent studies by allowing you to draw blood directly onto an anticoagulant containing CTI. You may choose to use our standard CTI/Citrate formulation (11mM Citrate, 50 µg/mL CTI) or you may create your own custom formulation. Blood collection tubes are not sterile and are manufactured and sold for research use only. Three standard sizes are available although custom sizes can be manufactured for you.

#### Characteristics

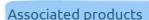
The SCAT series of collection tubes (Sample Collection/Anticoagulant Tubes) were developed specifically to minimize in vitro artifact by rapidly quenching unwanted protease activity. SCAT tubes are carefully formulated to yield a reproducible concentration of inhibitors with rapid dissolution properties (by ray at tf). The tubes are evacuated and stoppered under controlled conditions so that the tubes will automatically fill to the proper volume. Although the SCAT tubes may resemble a standard phlebotomy blood collection tube, it should be noted that these tubes are NOT STERILE, and therefore should not be used as a standard blood collection tube. Instead, it is recommended that the technique used to collect the sample (whether it be blood or another fluid sample), be direct collection into the SCAT tube through a catheter of at least five inches, and equipped with a multi-sample luer adapter (MSLA) to eliminate the possibility of a back-flush from the non-sterile tube to the patient.



Sample collection tubes

### Collection tubes with draw volume 2 mL





Special CTI collection tubes

Special collection tubes PPACK Aprotinin / EDTA

Special collection tubes PPACK Na Citrate / Mannitol



Reference	Presentation	Format
9-SCAT-ACT	Consumables	1 x 2 mL

Formulation: 6 mg kaolin/ mL blood

The minimum order quantity is 100 tubes. Discount according to quantitie.



#### Informations

Many non-routine tests and applications which require the collection of blood or other body fluids, also require the use of special anti-coagulant or proteinase inhibitor cocktails to preserve the integrity of the sample. Good examples of such tests include the measurements of Fibrinopeptide-A (FPA), Prothrombin Fragment 1•2 (F1•2), Fibrinogen Degradation Products (FDP) and the Thrombin/Antithrombin III complex (TAT), all of which are highly influenced by persistent protease activity in blood or plasma samples.

#### Advantages

These tubes are used primarily to assess for dysfunction in the intrinsic pathway of the coagulation cascade used in veterinary medicine. Normal clotting time in animals: Dog <120 seconds Chat <100 seconds Horse <45 seconds Beef <145 seconds

#### Characteristics

The SCAT series of collection tubes (Sample Collection/Anticoagulant Tubes) were developed specifically to minimize in vitro artifact by rapidly quenching unwanted protease activity. SCAT tubes are carefully formulated to yield a reproducible concentration of inhibitors with rapid dissolution properties (by ray at tf). The tubes are evacuated and stoppered under controlled conditions so that the tubes will automatically fill to the proper volume. Although the SCAT tubes may resemble a standard phlebotomy blood collection tube, it should be noted that these tubes are NOT STERILE, and therefore should not be used as a standard blood collection tube. Instead, it is recommended that the technique used to collect the sample (whether it be blood or another fluid sample), be direct collection into the SCAT tube through a catheter of at least five inches, and equipped with a multi-sample luer adapter (MSLA) to eliminate the possibility of a back-flush from the non-sterile tube to the patient.



Sample collection tubes

# Special collection tubes PPACK Aprotinin / EDTA





Special CTI collection tubes

Collection tubes with draw volume 2 mL

Special collection tubes PPACK Na Citrate / Mannitol



Many non-routine tests and applications which require the collection of blood or other body fluids, also require the use of special anti-coagulant or proteinase inhibitor cocktails to preserve the integrity of the sample. Good examples of such tests include the measurements of Fibrinopeptide-A (FPA), Prothrombin Fragment 1•2 (F1•2), Fibrinogen Degradation Products (FDP) and the Thrombin/Antithrombin III complex (TAT), all of which are highly influenced by persistent protease activity in blood or plasma samples.



Reference	Presentation	Format
9-SCAT-I-10	Consumables	1 x 10 mL
9-SCAT-I-3	Consumables	1 x 3 mL
9-SCAT-I-5	Consumables	1 x 5 mL

Formulation: 25 µM PPACK, 200 KIU/mL aprotinine, 4.5 mM EDTA, 0.1% Mannitol (w/v)

The minimum order quantity is 100 tubes. Discount according to quantities.

#### Characteristics

Many non-routine tests and applications which require the collection of blood or other body fluids, also require the use of special anti-coagulant or proteinase inhibitor cocktails to preserve the integrity of the sample. Good examples of such tests include the measurements of Fibrinopeptide-A (FPA), Prothrombin Fragment 1•2 (F1•2), Fibrinogen Degradation Products (FDP) and the Thrombin/Antithrombin III complex (TAT), all of which are highly influenced by persistent protease activity in blood or plasma samples. The SCAT series of collection tubes (Sample Collection/Anticoagulant Tubes) were developed specifically to minimize in vitro artifact by rapidly quenching unwanted protease activity. SCAT tubes are carefully formulated to yield a reproducible concentration of inhibitors with rapid dissolution properties (by ray at tf). The tubes are evacuated and stoppered under controlled conditions so that the tubes will automatically fill to the proper volume. Although the SCAT tubes may resemble a standard phlebotomy blood collection tube, it should be noted that these tubes are NOT STERILE, and therefore should not be used as a standard blood collection tube. Instead, it is recommended that the technique used to collect the sample (whether it be blood or another fluid sample), be direct collection into the SCAT tube through a catheter of at least five inches, and equipped with a multi-sample luer adapter (MSLA) to eliminate the possibility of a back-flush from the non-sterile tube to the patient.





Sample collection tubes

### Special collection tubes PPACK Na Citrate / **Mannitol**











#### Associated products

Special CTI collection tubes

Collection tubes with draw volume 2 mL

Special collection tubes PPACK Aprotinin / EDTA

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Many non-routine tests and applications which require the collection of blood or other body fluids, also require the use of special anti-coagulant or proteinase inhibitor cocktails to preserve the integrity of the sample. Good examples of such include the measurements of Fibrinopeptide-A (FPA), Prothrombin Fragment 1-2 (F1•2), Fibrinogen Degradation Products (FDP) and the Thrombin/Antithrombin III complex (TAT), all of which are highly influenced by persistent protease activity in blood or plasma samples.

Reference	Presentation	Format
9-SCAT-II-10	Consumables	1 x 10 mL
9-SCAT-II-3	Consumables	1 x 3 mL
9-SCAT-II-5	Consumables	1 x 5 mL

Formulation: 25 µM PPACK, 11 mM citrate de sodium, 0.1% Mannitol (w/v)

The minimum order quantity is 100 tubes. Discount according to quantities.

#### Characteristics

The SCAT series of collection tubes (Sample Collection/Anticoagulant Tubes) were developed specifically to minimize in vitro artifact by rapidly quenching unwanted protease activity. SCAT tubes are carefully formulated to yield a reproducible concentration of inhibitors with rapid dissolution properties (by ray at tf). The tubes are evacuated and stoppered under controlled conditions so that the tubes will automatically fill to the proper volume. Although the SCAT tubes may resemble a standard phlebotomy blood collection tube, it should be noted that these tubes are NOT STERILE, and therefore should not be used as a standard blood collection tube. Instead, it is recommended that the technique used to collect the sample (whether it be blood or another fluid sample), be direct collection into the SCAT tube through a catheter of at least five inches, and equipped with a multi-sample luer adapter (MSLA) to eliminate the possibility of a back-flush from the non-sterile tube to the patient.





Sample collection tubes

### Special collection tubes 75µM PPACK **D-Mannitol**











Associated	products

Special CTI collection tubes

Collection tubes with draw volume 2 mL

Special collection tubes PPACK Aprotinin / EDTA

Reference	Presentation	Format
9-SCAT-875B-10	Consumables	1 x 10 mL
9-SCAT-875B-3	Consumables	1 x 3 mL
9-SCAT-875B-5	Consumables	1 x 5 mL



Formulation: 75 µM PPACK (Phe-Pro-Arg-chloromethylketone), 0.1% D-Mannitol (p/v)

The minimum order quantity is 100 tubes. Discount according to quantitie.

#### Informations

Many non-routine tests and applications which require the collection of blood or other body fluids, also require the use of special anti-coagulant or proteinase inhibitor cocktails to preserve the integrity of the sample. Good examples of such include the measurements of Fibrinopeptide-A (FPA), Prothrombin Fragment 1-2 (F1•2), Fibrinogen Degradation Products (FDP) and the Thrombin/Antithrombin III complex (TAT), all of which are highly influenced by persistent protease activity in blood or plasma samples.

#### Characteristics

The SCAT series of collection tubes (Sample Collection/Anticoagulant Tubes) were developed specifically to minimize in vitro artifact by rapidly quenching unwanted protease activity. SCAT tubes are carefully formulated to yield a reproducible concentration of inhibitors with rapid dissolution properties (by ray at tf). The tubes are evacuated and stoppered under controlled conditions so that the tubes will automatically fill to the proper volume. Although the SCAT tubes may resemble a standard phlebotomy blood collection tube, it should be noted that these tubes are NOT STERILE, and therefore should not be used as a standard blood collection tube. Instead, it is recommended that the technique used to collect the sample (whether it be blood or another fluid sample), be direct collection into the SCAT tube through a catheter of at least five inches, and equipped with a multi-sample luer adapter (MSLA) to eliminate the possibility of a back-flush from the non-sterile tube to the patient.



Reference	Designation Click to go to the product sheet	PM (g/mol)	Extinction coefficient	WEB
Plasminogen Factor VII				
9-HCVII-0030	→ Human Factor VII	50 000	13.9	
Factor IX				
9-BCIX-1040	→ Bovine Factor IX	55 400	12.0	
9-HCIX-0040	→ Human Factor IX	55 000	13.2	
9-RATIX-9040	→ Rat Factor IX	51800	12.7	
Factor X				
9-BCX-1050	→ Bovine Factor X	55 100	12.4	•
9-HCX-0050	→ Human Factor X	58 900	11.6	•
9-HCX-GD	→ Human Gla-domainless Factor X			<b>─</b>
9-RATX-9050	→ Rat Factor X			<b>—</b>
Factor XI				
9-HCXI-0150	→ Human Factor XI	160 000	13.4	•
Factor XII				
9-HCXII-0155	→ Human Factor XII	80 000	14.0	
Factor XIII				
9-HCXIII-0160	→ Human Factor XIII	320 000	13.8	
Glu-plasminogen				
11-416	ightarrow Bovin glu-plasminogen (lyophilized)			•
9-BCPG-1130	→ Bovine Glu-plasminogen	88 000	17.0	•
9-HCPG-0130	→ Human glu-plasminogen (frozen)	88 000	17.0	
11-400	→ Human glu-plasminogen (lyophilized)	88000	17.0	₩
9-HCPG-0131	→ Human glu-plasminogen variant l (carbohydrate)	88 000	17.0	



Reference	Designation Click to go to the product sheet	PM (g/mol)	Extinction coefficient	WEB
9-HCPG-0132	→ Human glu-plasminogen variant II (carbohydrate)	88 000	17.0	<b>—</b>
Lys-plasminogen				
9-HCPG-0133	→ Human lys-plasminogen (frozen)	83 000	17.0	
Prethrombin				
9-HCP1-0011	→ Human prethrombin-1	49 900	17.8	
9-HCP2-0011	→ Human prethrombin-2	37 580	18.3	•
Protein C				
9-BCPC-1070	→ Bovine protein C	58 000	13.7	<b>—</b>
9-HCPC-0070	→ Human protein C	62 000	14.5	<b>—</b>
Prekallikrein				
26-ADG472	→ Human prekallikrein			•
Prothrombin				
9-BCP-1010	→ Bovine prothrombin	72 000	14.4	
9-HCP-0010	→ Human prothrombin	72 000	13.8	
9-HCP1-0010	→ Human prothrombin fragment 1	21 700	11.9	•
9-HCP12-0010	→ Human prothrombin fragment 1 – 2	34 566	10.8	•
9-HCP2-0010	→ Human prothrombin fragment 2	12 866	12.5	•



Factor VII

Informations

FIXa.

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an

active enzyme. Factor VII (FVII) is a glycoprotein

synthesized by the liver, zymogen of a serine

protease. It is a vitamin K dependent factor belonging to the prothrombin complex. Its half-life

is 4 to 6 hours and it is the only coagulation factor present in trace amounts in its active form. When

tissue factor appears on the endothelial surface,

activated FVII associates with it initiating the

extrinsic pathway for coagulation. This complex (FT-FVIIa) will activate the FX in FXa and the FIX in

### Human Factor VII











Reference	Presentation	Format
9-HCVII-0030	Vial	20 μg
9-HCVII-0030-1	Vial	1 mg



Origin: Human Blood / Plasma

Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

MW(Da): 50 000 Extinction coef.: 13.9 Concentration: 2.0 mg/mL Isoelectric point: 4.8 - 5.1



#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as boyine serum albumin, polyethylene alvool, or gelatin.



#### Factor IX

### **Bovine Factor IX**





Reference	Presentation	Format
9-BCIX-1040	Vial	100 µg
9-BCIX-1040-1	Vial	1 mg



# Informations

Human Factor IX
Rat Factor IX

Associated products

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. FIX is a vitamin K dependent glycoprotein synthesized by the liver. FIX can be activated to FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium.

#### Structure: single chain with N-terminal Gla domain and 2 EGF domains

MW(Da): 55 400 Extinction coef.: 12.0 Isoelectric point: 3.7

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE.

No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Associated products

#### Factor IX

Bovine Factor IX Rat Factor IX

Informations

active enzyme.

### Human Factor IX











Reference	Presentation	Format
9-HCIX-0040	Vial	100 µg
9-HCIX-0040-1	Vial	1 mg



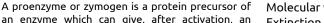
Buffer formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

Structure: single chain with N-terminal Gla domain and 2 EGF domains

Molecular weight (Da): 55 000

Extinction coef.: 13.2

Activity determinated by factor IX clotting assay



FIX is a vitamin K dependent glycoprotein synthesized by the liver.

FIX can be activated to FIXa by FXIa or by FVIIa in the presence of phospholipids and calcium.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H₂O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.





#### Factor IX

Informations

of phospholipids and calcium.

activated to FIXa by FXIa or by FVIIa in the presence

### Rat Factor IX





Reference	Presentation	Format
9-RATIX-9040	Vial	50 µg

Rat Fac

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. FIX is a vitamin K dependent Isogycoprotein synthesized by the liver. FIX can be

MW(Da): 51 800 Extinction coef.: 12.7 Isoelectric point: 5.21

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE.

No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



#### Factor X

### **Rovine Factor X**









Reference	Presentation	Format
9-BCX-1050	Vial	100 µg
9-BCX-1050-1	Vial	1 mg

Structure: 2 subunits (16 500 & 39 300), N-terminal Gla domain and 2 EGF domains

MW(Da): 55 100 Extinction coef.: 12.4 Isoelectric point: 4.8-5.2



#### Informations

Human Factor X

Mouse Factor X

Associated products

Human Gla-domainless Factor X

A zymogen (or proenzyme) is an inactive enzyme precursor. A zymogen requires a biochemical change for it to become an active enzyme. A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Factor X

### Human Factor X











Reference	Presentation	Format
9-HCX-0050	Vial	100 µg
9-HCX-0050-1	Vial	1 mg



Structure: 2 subunits (16 200 & 42 000), N-terminal Gla domain and 2 EGF domains

Molecular Weight (Da): 58 900

Extinction coef.: 11.6 Isoelectric point: 4.9-5.2

Buffer formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)



#### Informations

Bovine Factor X

Mouse Factor X

Associated products

Human Gla-domainless Factor X

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and by antithrombin.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



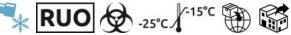
Associated products

Factor X

### Human Gla-domainless Factor X











Reference	Presentation	Format
9-HCX-GD	Vial	100 µд
9-HCX-GD-1	Vial	1 mg



#### Informations

Bovine Factor X Human Factor X Mouse Factor X

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin. Gla domains serve to bind calcium ions by chelating them between 2 carboxvlic acid residues.

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Factor X

Associate

Bovine Factor X Human Factor X

### Rat Factor X





ed products	Reference	Presentation	Format
or X	9-RATX-9050	Vial	100 µg
DI A			



#### Informations

Human Gla-domainless Factor X

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor X (FX) is a glycoprotein synthesized by the liver, dependent on vitamin K. FX is involved in the common pathway of coagulation. It is activated in FXa by the FT-FVIIa complex or by the FVIIIa-FIXa complex in the presence of phospholipids. FXa is neutralized by TFPI and antithrombin.

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Factor XI

### Human Factor XI











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A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor XI (FXI) is a protein synthesized by the liver.

It participates in the contact phase which initiates the intrinsic pathway of coagulation.

It is activated by FXIIa to factor FXIa which will itself activate FIX in the presence of calcium ions.

Reference	Presentation	Format
9-HCXI-0150	Vial	50 µg
9-HCXI-0150-1	Vial	1 mg

Structure: homodimer comprising 2 subunits of 80 kDa linked together by disulfide bridges. The monomers contain 4 repeated amino acid regions in tandem which they share with plasma prekallikrein.

Origin: Human Blood / Plasma

MW(Da): 160 000 Extinction coef.: 13.4

Formaulation: 50 % Glycerol / H2O (v/v)



#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.

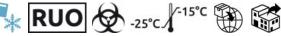


Factor XII

### Human Factor XII









Vial



1 mg



Reference

9-HCXII-0155

9-HCXII-0155-1

Structure: single chain organized into 6 domains based on sequence homology Formulation: 50 % / Glycerol / 4 mM Sodium Acetate. 150 mM NaCl. pH 5.3 (v/v)

Molecular weight (Da): 80 000

Extinction coef.: 14.0 Isoelectric point: 6.8

Buffer formulation: 50 % Glycerol / 4 mM Sodium Acetate, 150 mM NaCl, pH 5.3 (v/v)



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor XII (FXII) is a glycoprotein synthesized by the liver.

FXII participates in the contact phase which initiates the intrinsic pathway of coagulation.

Activated on contact with a negatively charged surface, it becomes capable of activating prekallikrein and kallikrein (amplified by KHPM) then FXI to FXIa in the presence of KHPM.

The FXIa thus formed activates the FXII in FXIIa, amplifying the reaction.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Factor XIII

Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an

active enzyme. Factor XIII is synthesized by the

Activated by thrombin, FXIII intervenes in the final

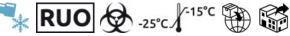
phase of fibrinoformation to stabilize the fibrin clot

by forming covalent bonds in the fibrin polymer.

### **Human Factor XIII**











Reference	Presentation	Format
9-HCXIII-0160	Vial	100 µg
9-HCXIII-0160-1	Vial	1 mg



Tetrameric structure of 2 non-identical subunits associated non-covalently. Formulation: 50% glycérol / 500µM EDTA

MW(Da): 320 000 Extinction coef.: 13.8 Isoelectric point: 5.2

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Glu-plasminogen

# Bovin glu-plasminogen (lyophilized)







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Human glu-plasminogen (frozen)

Human glu-plasminogen (lyophilized)

Human glu-plasminogen variant I (carbohydrate)

Reference	Presentation	Format
11-416	Vial	1 mg

Formulation: 10mM sodium phosphate, 140mM NaCl, 100mM Mannitol Ph7.4.

Low traces of plasmin /  $\alpha$ -2-antiplasmin complex.

#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Plasminogen (88 kDa) is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.

#### Advantages

The lyophilized presentation allows greater stability until the expiration date.

### Characteristics

Reconstitute with 2 mL of water, aliquot and store at -70 ° C to avoid freezing and thawing cycles.





Glu-plasminogen

Associated products

Bovin glu-plasminogen (lyophilized)

Human glu-plasminogen (frozen) Human glu-plasminogen (lyophilized)

## Bovine Glu-plasminogen









Reference	Presentation	Format
9-BCPG-1130	Vial	1 mg

Structure: single chain with 24 intrachain disulfide bonds, 5 kringle regions.

MW(Da): 88 000 Extinction coef.: 17



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Plasminogen (88 kDa) is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA. The 2 carbohydrate variants of glu-plasminogen (CHOI and CHOII) are isolated by a gradient elution on sepharose-lysine using a lysine analogue (aminocaproic acid).

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Glu-plasminogen

Associated products

Bovin glu-plasminogen (lyophilized)

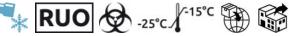
Human glu-plasminogen (lyophilized)

Human glu-plasminogen variant I (carbohydrate)

### Human glu-plasminogen (frozen)











Reference	Presentation	Format
9-HCPG-0130	Vial	1 mg

Structure: single chain with 24 intrachain disulfide bonds, 5 kringle regions.

MW(Da): 88 000 Extinction coef.: 17 Isoelectric point: 6.2



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Plasminogen (88 kDa) is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Glu-plasminogen

# Human glu-plasminogen (lyophilized)

**Format** 

5 mg





11-400



Reference	Presentation

Formulation: 10mM sodium phosphate, 140mM NaCl, 100mM Mannitol Ph7.4.

Vial

Low traces of plasmin /  $\alpha$ -2-antiplasmin complex.

MW(Da): 88 000 Extinction coef.: 17

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Associated produ	11115
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Bovin glu-plasminogen (lyophilized)

Human glu-plasminogen (frozen)

Human glu-plasminogen variant I (carbohydrate)

### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Plasminogen (88 kDa) is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA.

### Advantages

The lyophilized presentation allows greater stability until the expiration date. Pure protein > 95%.

### Characteristics

Reconstitute with 2 mL of water, aliquot and store at -70 °C to avoid freezing and thawing cycles.





Glu-plasminogen

Associated products

Bovin glu-plasminogen (lyophilized)

Human glu-plasminogen (frozen) Human glu-plasminogen (lyophilized)

# Human glu-plasminogen variant I (carbohydrate)











Reference	Presentation	Format
9-HCPG-0131	Vial	1 mg

Structure: single chain with 24 intrachain disulfide bonds, 5 kringle regions.

MW(Da): 88 000 Extinction coef.: 17 Isoelectric point: 6.2



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Plasminogen (88 kDa) is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA. The 2 carbohydrate variants of glu-plasminogen (CHOI and CHOII) are isolated by a gradient elution on sepharose-lysine using a lysine analogue (aminocaproic acid).

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



Glu-plasminogen

Associated products

Bovin glu-plasminogen (lyophilized)

Human glu-plasminogen (lyophilized)

Human glu-plasminogen (frozen)

# Human glu-plasminogen variant II (carbohydrate)











Reference	Presentation	Format
9-HCPG-0132	Vial	1 mg

MW(Da): 88 000 Extinction coef.: 17 Isoelectric point: 6.2

Structure: single chain with 24 intrachain disulfide bonds, 5 kringle regions.



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Plasminogen (88 kDa) is the zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin involve t-PA and u-PA. The 2 carbohydrate variants of glu-plasminogen (CHOI and CHOII) are isolated by a gradient elution on sepharose-lysine using a lysine analogue (aminocaproic acid).

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin. The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.



Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an

active enzyme. Plasminogen (88 kDa) is the

zymogen of plasmin, a key enzyme in the fibrinolysis system. Plasminogen is synthesized

mainly by the liver but also the eosinophils, the kidney and the cornea. It exists in 2 molecular forms: glu-plasminogen (native form) and

lys-plasminogen (more active form). The main pathways for activating plasminogen to plasmin

involve t-PA and u-PA. The 2 carbohydrate variants

of alu-plasminogen (CHOI and CHOII) are isolated

by a gradient elution on sepharose-lysine using a

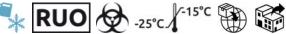
lysine analogue (aminocaproic acid).

Lys-plasminogen

### Human lys-plasminogen (frozen)











Reference	Presentation	Format
9-HCPG-0133	Vial	1 mg



MW(Da): 83 000 Extinction coef.: 17 Isoelectric point: 6.7-8.3



### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



**Prethrombin** 

### Human prethrombin-1











Reference	Presentation	Format
9-HCP1-0011	Vial	1 mg

MW(Da): 49 900 Extinction coef.: 17.8



#### Informations

Associated products

Human prethrombin-2

A zymogen (or proenzyme) is an inactive enzyme precursor. A zymogen requires a biochemical change for it to become an active enzyme. A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Prothrombin-1 contains the uncleaved protease domain and the kringle 2 domain of prothrombin. Cleavage takes place in vitro.

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



**Prethrombin** 

## Human prethrombin-2











Reference	Presentation	Format
9-HCP2-0011	Vial	1 mg

MW(Da): 37 580 Extinction coef.: 18.3



#### Informations

Human prethrombin-1

Associated products

A zymogen (or proenzyme) is an inactive enzyme precursor. A zymogen requires a biochemical change for it to become an active enzyme. A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Prothrombin -2 contains only the protease domain of prothrombin. The cleavage at position Arg 271 and Thr 272 of meizothrombin forms prethrombin 2 and fragment 1 + 2.

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



#### Protein C

### Bovine protein C





Human protein C



Structure: 1 heavy chain of 41 kDa and 1 light chain of 21 kDa linked by disulfide bridges.

MW(Da): 58 000 Extinction coef.: 13.7 Isoelectric point: 4.2-4.5



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a PC deficiency (acquired or congenital) is a risk factor for venous thrombosis, PC is a 62 kDa glycoprotein. synthesized by the liver in the presence of vitamin K. PC circulates in plasma in an inactive form at a concentration of approximately 4 µg / ml. Thrombin bound to thrombomodulin loses its procoagulant properties and activates PC into activated PC. The PCa in the presence of its cofactor, protein S, of calcium and phospholipids, is able to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of the generation of thrombin and limiting the extension of the thrombus.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE.

No additive or preservative.

**RUO** -25°C **√**-15°C **⊕ ⓒ** 

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



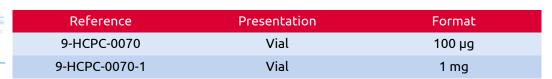
#### **Protein C**

## Human protein C





Bovine protein C





Origin: Human Blood / Plasma

Structure: 1 heavy chain of 41 kDa and 1 light chain of 21 kDa linked by disulfide bridges.

Molecular weight (Da): 62 000

Extinction coef.: 14.5

Specific activity: < 1 % HCAPC activity, Determinated by chromogenic assay.

Isoelectric point: 4.4-4.8

Buffer formulation : 50 % Glycerol / H<sub>2</sub>O (v/v)

**RUO** ♦ -25°C **1**5°C **(** 

# Human lot # NN00 Nspensed

#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Protein C (PC) is a vitamin K dependent plasma protein that regulates coagulation by inhibiting FVa and FVIIIa and helps limit the extension of the thrombus. Numerous clinical studies have shown that a Protein C deficiency (acquired or congenital) is a risk factor for venous thrombosis.

Protein C is a 62 kDa glycoprotein, synthesized by the liver in the presence of vitamin K. Protein C circulates in plasma in an inactive form at a concentration of approximately 4 µg / ml. Thrombin bound to thrombomodulin loses its procoagulant properties and activates Protein C into activated Protein C.

The PCa in the presence of its cofactor, protein S, of calcium and phospholipids, is able to inactivate the FVa and FVIIIa, true catalysts of coagulation, thus blocking the amplification loop of the generation of thrombin and limiting the extension of the thrombus.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE.

No additive or preservative.

### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H₂O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



**Prekallikrein** 

# Human prekallikrein







Informations

Prekallikrein (PK), also known as Fletcher factor, is a serine protease that complexes with high molecular-weight kininogen.

Prekallikrein is the zymogen form of plasma kallikrein, which is a serine protease that activates kinins. It is cleaved to produce kallikrein by activated FXII (Hageman factor). Sodium acetate, 0.15 M sodium chloride, pH 5.3.

MW(Da): 86 000 Extinction coef.: 11.7 Purity > 95%

#### Components

1 vial containing 1.0 mg of lyophilized 4 mM protein

### Characteristics

The protein is > 95% pure according to SDS-PAGE gels and shows no reduction when incubated with 2-mercaptoethanol.

We recommend that you reconstitute the vial in the original volume with filtered deionized water. All proteins are accompanied by certificates of analysis which describe the appropriate storage conditions.

In order for us to guarantee the stability of the product, it is imperative that the storage conditions are observed.

Avoid freezing and thawing cycles.





### **Prothrombin**

Associated products

Human prothrombin fragment 1

Human prothrombin

Mouse prothrombin

### Bovine prothrombin

1 ma









Presentation	Form
Vial	2 mc

Structure: 1 N-terminal Gla domain, 2 kringles domains and a protease domain.

Vial

MW(Da): 72 000 Extinction coef.: 14.4 Isoelectric point: 4.4-4.9

Reference

9-BCP-1010

9-BCP-1010-1



#### Informations

A zymogen (or proenzyme) is an inactive enzyme precursor. A zymogen requires a biochemical change for it to become an active enzyme. A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibringen into fibrin, amplify its own formation and activate the protein C. TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during antivitamin K treatment or deficiency in vitamin K, CIVD, anti-FII autoantibodies.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative. Expiration date of one year from delivery. Delivery in large quantities. Discount according the quantities.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



#### **Prothrombin**

Associated products

Human prothrombin fragment 1

### **Human prothrombin**



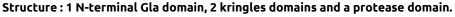








Reference	Presentation	Format
9-HCP-0010	Vial	2 mg
9-HCP-0010-1	Vial	1 mg



Origin: Human Blood / Plasma

Formulation: 50 % Glycerol / H<sub>2</sub>O (v/v)

MW(Da): 72 000 Extinction coef.: 13.8 Isoelectric point: 4.7-4.9



#### Informations

Bovine prothrombin Mouse prothrombin

A zymogen (or proenzyme) is an inactive enzyme precursor. A zymogen requires a biochemical change for it to become an active enzyme. A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Factor II (FII) or prothrombin is a glycoprotein synthesized by the liver, zymogen of a serine protease. It is a vitamin K-dependent clotting factor. Its half-life is 50 to 120 hours. FII is activated by the prothrombinase thrombin complex which plays a central role in the coagulation process. It will transform fibringen into fibrin, amplify its own formation and activate the protein C. TAFI and platelet systems. There are constitutional deficits in FII which are very rare and acquired deficits which can be observed during antivitamin K treatment or deficiency in vitamin K, CIVD. anti-FII autoantibodies.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H<sub>2</sub>O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



**Prothrombin** 

Associated products

## Human prothrombin fragment 1







MW(Da): 21 700 Extinction coef.: 11.9



#### Informations

Bovine prothrombin

Human prothrombin

Mouse prothrombin

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Fragment 1 of prothrombin corresponds to the N-terminal Gla domain as well as to the kringle -1 domain.

#### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.

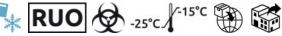


**Prothrombin** 

# Human prothrombin fragment 1-2











Associated products	
Bovine prothrombin	
Human prothrombin	
Mouse prothrombin	

Reference Presentation Format Vial 9-HCP12-0010 1 ma

MW(Da): 34 566 Extinction coef.: 10.8



#### Informations

A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. The 1 - 2 fragment of prothrombin corresponds to the N-terminal Gla domain as well as to the kringle -1 and kringle -2 domains.

### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or agueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers, complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.



**Prothrombin** 

Associated products

### Human prothrombin fragment 2

Format

1 ma











Vial

Reference	Presentation
* RUO & -25°C.	

9-HCP2-0010

MW(Da): 12 866 Extinction coef.: 12.5



#### Informations

Bovine prothrombin

Human prothrombin

Mouse prothrombin

A zymogen (or proenzyme) is an inactive enzyme precursor. A zymogen requires a biochemical change for it to become an active enzyme. A proenzyme or zymogen is a protein precursor of an enzyme which can give, after activation, an active enzyme. Prothrombin -2 contains only the protease domain of prothrombin. The cleavage at position Arg 271 and Thr 272 of meizothrombin forms prethrombin 2 and fragment 1 + 2.

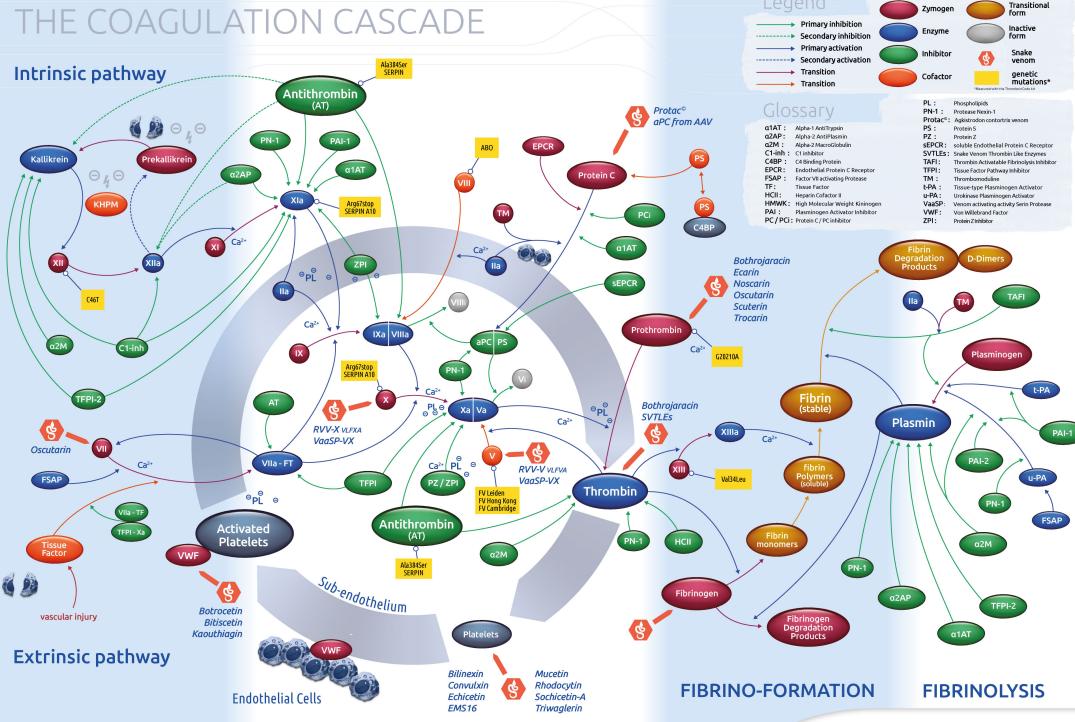
### Advantages

The vast majority of zymogens is pure (without additives) with > 95 % purity SDS-PAGE. No additive or preservative.

#### Characteristics

All proteins are accompanied by product information sheets which describe proper storage conditions. In order that we may warrant product stability, it is imperative that these storage conditions be maintained at all times. Many of our protein preparations are formulated in 50 % (vol / vol) glycerol/H<sub>2</sub>O which will remain in fluid phase during storage at -20° C. This preferred method of storage yields the greatest protein stability while still allowing access to the stock protein sample without repeated thawing and freezing steps. All products which are formulated with either glycerol/H₂O or aqueous buffer are delivered in microcentrifuge tubes. By briefly centrifuging the samples in their original containers. complete recovery of the sample at the bottom of the tube will be accomplished. Temperatures lower than -30° C should be avoided in order to prevent a phase transition. When preparing to make a dilution of the stock sample, remove the sample from storage at -20° C and place on ice for a brief period of time (5-10 min). The sample will become less viscous and thus easier to pipette. Never allow protein solutions to remain at room temperature for excessive periods of time. Elevated temperatures may enhance the rate of protein degradation. Avoid storing or maintaining dilute protein samples for a long period of time. In general, purified proteins are inherently more stable in concentrated form. Many proteins are «sticky» by nature. To avoid losing protein due to adsorption, extremely dilute protein samples should be prepared in buffers containing excipients such as bovine serum albumin, polyethylene glycol, or gelatin.





**ACTIVATION** 

**AMPLIFICATION** 



# ALPHABETICAL INDEX

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Afibrinogenemia plasma	340	Ecarin 50 EU	372	Human Factor IXa - blocked active site (EGRck)	228
Alpha-2-antiplasmin human deficient plasma (congenital)	306	EGR-chloromethylketone (GGACK)	247	Human Factor V	136
Anti-human Tissue Factor Pathway Inhibitor, IgG	52	Factor XIII High > 150 % (acquired)	361	Human Factor V congenital Deficient Plasma	319
Anti-Tissue Factor (IgG) murine monoclonal antibody	75	Fibrinogen Immunodepleted Deficient Human Plasma	263	Human Factor V congenital deficient plasma (severe <1%)	290
Anticoagulant plasma – DTI – Argatroban – U/mL	366	Fibronectin protein	187	Human Factor V congenital deficient plasma >5%	291
Antithrombin human deficient plasma (acquired)	312	FII Immunodepleted Deficient Human Plasma	264	Human Factor V IgG free	134
Antithrombin Immunodepleted Deficient Human Plasma	261	FIX Immunodepleted Deficient Human Plasma	265	Human Factor Va	138
Antithrombin/Heparin Cofactor II Immunodepleted Deficient Human Pla		Fluorescein-EGR chloromethylketone	248	Human Factor VII	452
Aprotinin concentrate liquid	232	Fluorescein-FPR-chloromethylketone	250	Human Factor VII congenital Deficient Plasma	320
B2GP1 Immunodepleted Deficient Human Plasma	277	Fluorogenic substrate ANSN for Factor Xa	435	Human Factor VII congenital deficient plasma (severe <1%)	292
Batroxobin	380	Fluorogenic substrate ANSN for Factor XIa (EGR)	442	Human Factor VII congenital deficient plasma >5%	293
Batroxobin Maranhao 100BU	379	Fluorogenic substrate ANSN for Factor XIa (LPR)	441	Human Factor VIII congenital Deficient Plasma	321
Biotinylated bovine α-thrombin - blocked active site (FPRck)	211	Fluorogenic substrate ANSN for PCa	436	Human Factor VIII congenital deficient plasma (severe <1%)	294
Biotinylated EGR-chloromethylketone	245	Fluorogenic substrate ANSN for plasmin	433	Human Factor VIII congenital deficient plasma >5%	295
Biotinylated EGN-Chloromethylketone	246	Fluorogenic substrate ANSN for t-PA	437	Human Factor VIII congenital Deficient Plasma with inhibitor	322
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Bovine Activated Protein C (APC)	208	Fluorogenic substrate ANSN for thrombin and FVIIa	438 434	Human Factor X congenital deficient plasma (severe <1%)	299
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Bovine lactadherin coupled to FITC	165	Heparin Cofactor II Immunodepleted Deficient Human Plasma	274	Human Factor XIa - blocked active site (EGRck)	202
Bovine osteocalcin (bone)	167	High Factor II plasma (acquired) > 150 %	353	Human Factor XII	461
Bovine osteonectin (bone)	169	High Factor IX plasma > 150 % (acquired)	357	Human Factor XII congenital deficicent plasma >5%	308
Bovine protein C	472	High Factor V plasma (acquired) > 150 %	354	Human Factor XII congenital Deficient Plasma	326
Bovine prothrombin	475	High Factor X plasma > 150 % (acquired)	358	Human Factor XII congenital deficient plasma (severe <1%)	309
Bovine serum albumin 20%	388	High Factor XI plasma > 150 % (acquired)	359	Human Factor XIII	462
Bovine α thrombin	212	High Factor XII plasma > 150 % (acquired)	360	Human Factor XIII congenital Deficient Plasma	327
Bovine α thrombin - blocked active site (DFP)	213	High FVII plasma 100-150 % (acquired)	355	Human Factor XIII congenital deficient plasma (severe <1%)	311
Bovine α thrombin - blocked active site (FPRck)	214	High FVIII plasma > 150 % (acquired)	356	Human Factor XIII congenital deficient plasma >5%	310
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4-TC31024	88	6-PP11H	359	6-VEN-RVVV-100	378	8-801682	389	9-BCVA-1110	137	9-HCVA-0110	138
4-TC31054	119	6-PP12H	360	6-VEN-RVVX-100	371	9-ABOC-5021	54	9-BCX-1050	456	9-HCVII-0030	452
4-TC41004	188	6-PP13H	361	6101-1751	403	9-ABV-5103	9	9-BCXA-1060	194	9-HCVIIA-0031	221
4-TC41014	166	6-PPAFIB	340	61010216	409	9-ABV-5104	10	9-BCXA-1000	195	9-HCVWF-0190	127
4-TC41052	171	6-PPAOH	364	61010238	407	9-ABV-5105	8	9-BEGRCK-06	245	9-HCVWF-0191	128
4-TC41052 4-TC41067	189	6-PPAOL	362	610110230	420	9-ABV-5106	11	9-BFPRCK-06	246	9-HCX-0050	457
4-TC41007 4-TC41072	174	6-PPAOM	363	61011032	422	9-ABV-5107	12	9-BLAC-1200	164	9-HCX-GD	458
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9-HCXA-BEGR	197	9-RVVX-2010	370
9-HCXA-DEGR	198	9-SCAT-27-1.8/5	445
9-HCXA-EGR	199	9-SCAT-875B-3	449
9-HCXA-GD	200	9-SCAT-ACT	446
9-HCXI-0150	460	9-SCAT-I-3	447
9-HCXIA-0160	203	9-SCAT-II-3	448
9-HCXIA-EGR	202	9-SN-13a	441
9-HCXII-0155	461	9-SN-17a	438
9-HCXIII-0160	462	9-SN-17c	434
9-HCXIIIA-0165	205	9-SN-18	437
9-HOC-0302	168	9-SN-20	439
9-HON-0303	170	9-SN-45	442
9-HPF4-0180	180	9-SN-5	433
9-HVN-0230	175	9-SN-54	436
9-PABFV-S	99	9-SN-59	440
9-PAHAT-S	95	9-SN-7	435
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9-PAHFVIII-S	113		
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# TERMS AND CONDITIONS

#### 1. APPLICABLE RIGHT

The customer recognizes and agrees that these Terms and Conditions (below "Terms") govern all relations with the company CRYOPEP and they supersede the terms of any purchase by the customer. Any additions, modifications or deletions made to these Terms and Conditions of Sale shall be null and void unless approved in writing by CRYOPEP. The failure or delay of CRYOPEP to enforce any of these Terms and Conditions of Sale shall not be deemed to be a waiver by CRYOPEP of any such terms. The parts shall designate by common agreement the French law as the only law applicable to contractual relations between CRYOPEP and his customer, and that the exclusion-specific provisions of the Vienna Convention.

#### 2. JURISDICTION

It is made of jurisdiction to the courts of Montpellier, which have exclusive jurisdiction, regardless of the nature, cause and location of the dispute and which may be the special conditions of sale, even in the case of appeal or multiple defendants. Our deliveries, our belongings, our acceptances regulations do not constitute either novation or derogation from the jurisdiction clause.

#### 3. ORDER

The order is final only if the order is received in the form of a letter, fax, email or through a recognized CRYOPEP website online ordering system and has references to the designation of products ordered, of quantity, price, and the identific ation of the customer's signature and only after acceptance of such order by CRYOPEP.

#### 4. DELIVERY TIME

The delivery time is at least 24 to 72 hours and in any event, time that could be communicated to the customer by CRYOPEP are given only for illustrative purposes and do not constitute a commitment on CRYOPEP. They begin to run until all specifications are finalized by mutual agreement and that any payments have been paid by the customer CRYOPEP. CRYOPEP will not be obliged to pay any compensation or damages whatsoever for any delay in delivery due to the carrier or other third parties, and in cases of force majeure, in particular in case of strikes, social unrest, adverse weather conditions, etc.

#### 5. DELIVERIES - SHIPMENTS

For France and Benelux: shipments are carriage paid when the net amount of the order exceeds one thousand two hundred EUR ( $\in$  1,200). For orders of less than one thousand two hundred EUR ( $\in$  1,200) excluding VAT, transport costs of fourty EUR ( $\in$  40) will be applied. Transport costs are increased by an additional fourty EUR ( $\in$  40  $\in$  1 if the products are shipped frozen.

For all other countries: shipping costs will be calculated based on the actual shipping costs with insurance. Transport costs are increased by an additional fourty EUR ( $40 \in$ ) if the products are shipped frozen.

No product returns are accepted by CRYOPEP without prior written authorization.

#### 6. PRICE AND BILL

The price of the products ordered is the one in force at the date of the order for the calendar year, or if the date of delivery thereof to the customer's request, is subsequent to the date of entry into force of the new rate.

#### 7. PAYMENT

Invoices are payable upon receipt unless prior written agreement CRYOPEP. Payment is made at the address overleaf and failing that, to our headquarters. The financial cost of any delay in payment or deferment is charged by right, without the need of a formal notice at the rate of one and a half times the legal rate of interest. This interest is due from the first day of delay.

Effective 1 January 2013, a new fixed penalty will be due the creditor right, without the need of a formal notice to any payment made after the due date. Decree 2012-1115 of October 2, 2012 fixed this late penalty to fourty EUR (€ 40). However, if the recovery costs incurred would be higher, CRYOPEP may, upon justification, claim a lump sum later.

#### 8. GUARANTEE

Our products are guaranteed for one year from the date of delivery, unless otherwise stated, against any manufacturing defect or malfunction of the product with the exception of any incident due to normal wear and tear, due to handling or not in accordance with requirements contained in the documents and manuals delivered with the product or, more generally, for any abnormal operation or handling. The warranty covers the exchange of defective parts by CRYOPEP. This warranty does not cover glass parts. It does not include either the consequences of a possible detention of personnel or equipment or any other direct or indirect consequence of the failure of all or part of the products. This warranty begins on the date of delivery of the products. The interventions by CRYOPEP under this warranty do not have the effect of extending, CRYOPEP's responsibility is expressly limited to the warranty specified above and can in no way be held liable due to accidents to persons and things. CRYOPEP is not responsible for damage to customer property used for business purposes. In no event shall the responsibility of CRYOPEP exceed the price paid by the customer for the products concerned. The guarantee is removed and CRYOPEP is relieved of all responsibility when the product has been altered or modified, where the damage is due to negligence, improper storage, improper use, failure to follow instructions contained in the direction insert or if the customer does not meet its contractual payment obligations.

#### 9. RETENTION OF TITLE

It is expressly agreed that CRYOPEP retains ownership of the goods to the order, until full payment of the price in principal and interest, the delivery of effects or other instrument creating an obligation to pay does not constitute a payment. CRYOPEP reserves the right to either initiate litigation as defined in paragraph 10 is to solve right sale 15 days after notice by registered letter with acknowledgment of receipt unsuccessful. In this case the customer must return the products purchased CRYOPEP.

In case of bankruptcy of the customer, products of the order may be asserted under the provisions of the Commercial Code. Products designated above remain the property of CRYOPEP until full payment of the price, it is expressly forbidden to the customer pledge or otherwise dispose of, to sell or transform. In case of seizure by third parties on these products, the customer is obliged to immediately inform CRYOPEP.

#### 10. COMPLAINTS

Any complaints should be addressed to CRYOPEP within 2 days from the date of actual receipt. In case of default of payment of any invoice resulting from the use CRYOPEP litigation, it is applied as damages, an amount equivalent to 20% of the unpaid, in addition to legal fees and financial charges defined paragraph 7. In the event of a dispute concerning the interpretation of these Terms, the French version of the said Conditions shall be considered.



visit our website: www.cryopep.com