



Thrombin Porcine, Purified Protein

Product Data Sheet

Cat. No.:	A16170500	A16171000	A16172000
Size:	500 U	1000 U	2000 U

Description

Thrombin Porcine, purified native protein, lyophilized.

Summary

Thrombin enzyme (Activated Factor IIa) is an important clotting promoter that controls the transformation of soluble fibrinogen to insoluble active fibrin strands. Thrombin is a coagulation protein and a serine protease (EC 3.4.21.5) that catalyzes many coagulation-related reactions. Thrombin triggers factor-XI, factor-V, Factor-XIII and factor-VIII. Thrombin endorses platelet activation, using activation of protease-activated receptors on the platelet.

Application

As a result of its high proteolytic specificity, thrombin has become an important biochemical protein. The thrombin cleavage site (Leu-Val-Pro-Arg-Gly-Ser) is widely used in linker regions of recombinant fusion protein constructs. After the purification of the fusion protein, thrombin is used to cleave between the Arginine and Glycine residues of the cleavage site, efficiently removing the purification tag from the protein of interest with a high degree of specificity.

Other names

Native thrombin protein, Porcine Activated Factor IIa, Factor 2A, F2, PT, RPRGL2, THPH1, coagulation factor II, EC 3.4.21.5, UniProtKB# P00735.

Type

Purified protein

update.: 2023.12

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Source

Porcine blood

CAS Registry No.

9002-04-4

Formulation

Sterile filtered white lyophilized (freeze-dried) powder. Lyophilized powder from glycine, calcium chloride pH 7.0 containing 0.9% NaCl.

Reconstitution

It is recommended to reconstitute the lyophilized Thrombin in sterile 0.9% NaCl.

Shipping

Ships at ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Expiration

Lyophilized Thrombin, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution, Thrombin should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% [HSA or BSA](#)). **Please avoid multiple freeze-thaw cycles.**

Usage

This product is intended for **Laboratory Research Use Only**. Not for use in diagnostic or therapeutic procedures. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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