

Active Native Bovine Thrombin

Cat. No. F2-90B Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Bovine

Source Bovine Plasma

Description

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. 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.

Form Lyophilized

Bio-activity >1500 units/mg powder.

Molecular Mass 37 kDa

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Purity	Purity by SDS-PAGE: ≥98%
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening
Storage	-20°C
Storage Buffer	Sterile filtered and lyophilized with Mannitol and Sodium Chloride.
Reconstitution	Reconstitute in sterile water (100 U/ml) with 0.9% NaCl. It forms a clear solution.
Shipping	Gel pack

GENE INFORMATION

Gene Name	F2 coagulation factor II (thrombin) [Bos taurus]
Official Symbol	F2
Synonyms	prothrombin; thrombin
Gene ID	280685
mRNA Refseq	NM_173877
Protein Refseq	NP_776302
UniProt ID	P00735
Chromosome Location	chromosome: 15

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Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem
Function	calcium ion binding; fibrinogen binding; receptor binding

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