

Active Native Bovine Thrombin

Cat. No. TIMP1-91B Lot. No. (See product label)

SPECIFICATION

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 90-250 U/mg of lyophilized powder.

Molecular Mass 37 kDa

Purity Purity by SDS-PAGE: ≥98%

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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	TIMP1 TIMP metalloproteinase inhibitor 1 [Bos taurus]
Official Symbol	TIMP1
Synonyms	metalloproteinase inhibitor 1; EG-1TIMP-1embryogenin-1; tissue inhibitor of metalloproteinases 1; tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
Gene ID	282092
mRNA Refseq	NM_174471
Protein Refseq	NP_776896
UniProt ID	P20414
Chromosome Location	chromosome: X

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Pathway

Activation of Matrix Metalloproteinases, organism-specific biosystem; Hemostasis, organism-specific biosystem; Platelet degranulation, organism-specific biosystem

Function

cytokine activity; metal ion binding; metalloendopeptidase inhibitor activity

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