

Native Bovine Thrombin

Cat. No. Thrombin-23B **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Bovine
Source	Bovine Blood
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 freeze dry powder formulated with Tris buffer and sodium chloride.
Bio-activity	2000 NIH U/mg
Storage	Lyophilized Thrombin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IPF1 should be stored at 4°C

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 prevent freeze-thaw cycles.

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

Pathway Cell surface interactions at the vascular wall, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Common Pathway, organism-specific biosystem

Function calcium ion binding; fibrinogen binding; protein binding

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