

## Active Native Pig Thrombin

Cat. No. Thrombin-20H    Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Pig
<b>Source</b>	Pig Blood
<b>Description</b>	<p>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.</p>
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	150 u/mg
<b>Purity</b>	Single band
<b>Storage</b>	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

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Reconstitution** It is recommended to reconstitute the lyophilized Thrombin in sterile 18 M Ω-cm H<sub>2</sub>O.

## GENE INFORMATION

**Gene Name** F2 coagulation factor II (thrombin) [ *Sus scrofa* ]

**Official Symbol** F2

**Synonyms** prothrombin; thrombin

**Gene ID** [100144442](#)

**mRNA Refseq** [NM\\_001122985](#)

**Protein Refseq** [NP\\_001116457](#)

**UniProt ID** [Q19AZ8](#)

**Chromosome Location** 2; 2

**Pathway** Complement and coagulation cascades, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem

**Function** calcium ion binding; serine-type endopeptidase activity

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