

Active Native Human β -thrombin

Cat. No. Thrombin-25H Lot. No. (See product label)

SPECIFICATION

Product Overview Human beta-thrombin are prepared from purified α -thrombin by limited proteolysis with TPCK-treated trypsin, essentially by the method of Braun et al.

Species Human

Source Plasma

Description Alpha-thrombin is a highly specific serine protease generated by proteolytic activation of the zymogen prothrombin. Purified forms of α -thrombin have been shown to undergo autolysis upon long term storage to less active forms. Similar inactivation was observed upon limited digestion of α -thrombin with trypsin. These proteolyzed forms of α -thrombin have been termed β -thrombin and γ -thrombin. Human β -thrombin is generated by cleavage of the B-chain at the Arg106-Tyr107 bond. γ -thrombin is generated by further cleavage of the β -thrombin B2-chain at the Lys190-Gly191 bond. Another form of proteolyzed thrombin, termed β -thrombin is formed by the single cleavage of thrombin at Arg-154. γ -thrombin is produced by proteolytic cleavage at both of these sites (Arg70/73 and Arg-154) in the B-chain. These cleavages cause release of peptides that are no longer covalently attached to the thrombin molecule, but remain associated through ion exchange and gel filtration chromatography. These proteolyzed forms of thrombin retain their ability to cleave small synthetic substrates and some protein substrates such as factor XIII, antithrombin III and prothrombin. Their ability to clot fibrinogen, cleave thrombospondin or activate protein C have been markedly decreased.

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Form	10 mM NaPO ₄ , 0.3 M NaCl, pH 6.5
Bio-activity	<5% thrombin="">
Purity	≥95% by SDS-PAGE. NOT tissue/cell culture grade.
Storage	at or below -70 °C
Concentration	6.4 mg/mL

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