

Active Native Bovine alpha-Thrombin-DFP

Cat. No. Thrombin-28B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Bovine alpha-Thrombin was purified from Plasma. DFP is thrombin blocked with DFP (Diisopropylfluorophosphate).
Species	Bovine
Source	Plasma
Description	Alpha-thrombin is a highly specific serine protease generated by proteolytic activation of the zymogen prothrombin. During coagulation, thrombin cleaves fibrinogen to form fibrin, leading to the ultimate step in coagulation, the formation of a fibrin clot. Thrombin is also responsible for feedback activation of the procofactors factor V and factor VIII. Thrombin has also been reported to activate factor XIII and platelets, and also functions as a vasoconstrictor protein. The procoagulant activity of thrombin is arrested in two ways: 1) inhibition by either heparin cofactor II or the antithrombin III/heparin complex; or 2) complex formation with thrombomodulin. Formation of the thrombin/thrombomodulin complex results in the inability of thrombin to cleave fibrinogen and activate factors V and VIII, but increases the efficiency of thrombin for activation of the anticoagulant, protein C.
Form	20 mM Hepes, 150 mM NaCl, pH 7.4
Bio-activity	approximately 3800 NIH units/mg
Molecular Mass	36700 Da

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Purity	>95% by SDS-PAGE
Storage	Glycerol formulation: -20°C Hepes formulation: -80°C