

Active Native Human alpha-Thrombin

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

SPECIFICATION

Product Overview Native Human alpha-Thrombin was purified from Plasma.

Species Human

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 50% glycerol/water (v/v)

Bio-activity 4493 U/mg

Molecular Mass 36700 Da

Purity >95% by SDS-PAGE

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Storage	Glycerol formulation: -20°C Hepes formulation: -80°C
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Concentration	8.9 mg/mL
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