

## Active Native Bovine alpha-Thrombin

**Cat. No.** Thrombin-27B    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Native Bovine $\alpha$ -Thrombin was purified from Plasma.
<b>Species</b>	Bovine
<b>Source</b>	Plasma
<b>Description</b>	<p>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.</p> <p>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.</p>
<b>Form</b>	50% glycerol/water (v/v)
<b>Bio-activity</b>	approximately 3800 NIH units/mg
<b>Molecular Mass</b>	36700 Da
<b>Purity</b>	>95% by SDS-PAGE

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**Storage**

Glycerol formulation: -20°C Hepes formulation: -80°C

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