

Active Native Bovine alpha-Thrombin-BFPRck, Biotin-tagged

Cat. No. Thrombin-30B Lot. No. (See product label)

SPECIFICATION

Product Overview Native Bovine alpha-Thrombin was purified from Plasma. FPRck is Phe-Pro-Arg chloromethylketone (CMK) and BFPRck is biotinylated FPRck.

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



Purity >95% by SDS-PAGE

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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