Creative Enzymes®

Native Rat Thrombin

Cat. No. NATE-0701

Lot. No. (See product label)

Introduction

Description	Thrombin is a serine protease that in humans is encoded by the F2 gene. Prothrombin (coagulation factor II) is proteolytically cleaved to form thrombin in the coagulation cascade, which ultimately results in the reduction of blood loss. Thrombin in turn acts as a serine protease that converts soluble fibrinogen into insoluble strands of fibrin, as well as catalyzing many other coagulation-related reactions.
Applications	Thrombin is used for site specific cleavage of recombinant fusion proteins containing an accessible thrombin recognition site for removal of affinity tags. Thrombin has been used in a study to investigate activation of equine platelet-rich plasma.
Synonyms	thrombin; 9002-04-4; EC 3.4.21.5; fibrinogenase; thrombase; thrombofort; topical; thrombin-C; tropostasin; activated blood-coagulation factor II; blood-coagulation factor IIa; factor IIa; E thrombin; β-thrombin; γ-thrombin

Product Information

Species	Rat
Source	Rat plasma
Form	lyophilized powder
EC Number	EC 3.4.21.5
CAS No.	9002-04-4
Activity	600-2,000 NIH units/mg protein (biuret) or > 2,000 NIH units/mg protein (E1%/280 = 19.5); > 125 NIH units/mg protein (biuret)
Buffer	Lyophilized from saline sodium Citrate buffer, pH 6.5