

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