

Native Bovine Thrombin

Cat. No. NATE-0698

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 assess an expression and purification system for the biosynthesis of adenosine receptor peptides for biophysical

and structural characterization.

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; E thrombin; β-

thrombin; y-thrombin

Product Information

Species Bovine

Source Bovine plasma

Form Type I, Lyophilized from saline sodium Citrate buffer, pH 6.5; Type II, buffered aqueous solution, In 0.05

M phosphate buffer, pH 7.0

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)

Pathway Cell surface interactions at the vascular wall, organism-specific biosystem; Class A/1 (Rhodopsin-like

receptors), organism-specific biosystem; Common Pathway, organism-specific biosystem

Function calcium ion binding; fibrinogen binding; protein binding