

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; 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 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,

1/1

organism-specific biosystem

Function calcium ion binding; fibrinogen binding; protein binding

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com