Active Native Mouse Thrombin

Cat. No. Thrombin-31M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Mouse Thrombin was purified from Plasma.
Species	Mouse
Source	Plasma
Description	Thrombin (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, beta-thrombin, gamma-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.
Form	50% glycerol/water (v/v)
Bio-activity	approximately 3800 NIH units/mg
Molecular Mass	36700 Da
Purity	>95% by SDS-PAGE
Storage	Glyercol formulation: -20°CHepes formulation: -80°C

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GENE INFORMATION

Gene Name	F2 coagulation factor II [Mus musculus]
Official Symbol	F2
Synonyms	F2; coagulation factor II; prothrombin; Cf2; FII; Cf-2; thrombin;
Gene ID	14061
mRNA Refseq	NM_010168
Protein Refseq	NP_034298
Pathway	Blood Clotting Cascade, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem;
Function	calcium ion binding; catalytic activity; hydrolase activity; peptidase activity; protein binding; receptor binding; serine-type endopeptidase activity; serine-type endopeptidase activity; serine-type peptidase activity; thrombospondin receptor activity;

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