

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	Glycerol formulation: -20°C Hepes 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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