

Native Mouse Coagulation Factor II

Cat. No. F2-5287M Lot. No. (See product label)

SPECIFICATION

Product Overview	Mouse F2 is prepared from fresh frozen mouse plasma.
Species	Mouse
Source	Mouse Plasma
Description	F2 is proteolytically cleaved to form thrombin in the first step of the coagulation cascade, which ultimately results in the stemming of blood loss. F2 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	Frozen liquid in 0.05 M HEPES Buffer + 0.1 M NaCl, pH 7.4.
Purity	> 95% by SDS-PAGE analysis.
Molecular Weight	72 kDa
Endotoxin Level	< 0.1 ng/μg of protein
Biological Activity	Activity is measured by clotting and/or chromogenic substrate assay, following conversion of prothrombin to thrombin.
Concentration	5.0 mg/ml
Storage	Store at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.

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Pathways

BloodClotting Cascade; Cell surface interactions at the vascular wall; ClassA/1(Rhodopsin-like receptors); Common Pathway; Complement and CoagulationCascades; Diabetes pathways; FOXA2 and FOXA3 transcription factor networks; ExtrinsicPathway; Formation of Fibrin Clot (Clotting Cascade); Hemostasis; IntrinsicPathway; Regulation of actin cytoskeleton; Selenium Pathway; SignalTransduction

GENE INFORMATION

Gene Name [F2coagulation factor II \[Mus musculus \]](#)

Official Symbol [F2](#)

Synonyms F2; coagulation factor II;prothrombin; thrombin; Cf2; FII; Cf-2; OTTMUSP00000015068; EC 3.4.21.5;Prothrombin; Coagulation factor II; Thrombin light chain; Thrombin heavychain

Gene ID [14061](#)

mRNA Refseq [NM_010168](#)

Protein Refseq [NP_034298](#)

UniProt ID P19221

Chromosome Location 2

Function peptidaseactivity;serine-typeendopeptidase activity; calcium ion binding; receptor binding; thrombospondinreceptor activity; catalytic activity; hydrolase activity; serine-type peptidaseactivity

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