

Native Human Coagulation Factor II

Cat. No. F2-1882H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native human F2 was expressed in Human plasma.
Species	Human
Source	Human Plasma
Description	F2 is a serine protease protein that in humans is encoded by the F2 gene. Prothrombin (coagulation factor II) 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	Liquid in 0.1 M NaH ₂ PO ₄ , pH 6.5.
Molecular Mass	35.4 kDa
Storage	Store in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	5.0 mg/ml

GENE INFORMATION

Gene Name	F2 coagulation factor II (thrombin) [Homo sapiens]
Official Symbol	F2

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Synonyms	F2; coagulation factor II (thrombin); prothrombin; serine protease; prothrombin B-chain; PT; THPH1;
Gene ID	2147
mRNA Refseq	NM_000506
Protein Refseq	NP_000497
MIM	176930
UniProt ID	P00734
Chromosome Location	11p11-q12
Pathway	Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; 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;
Function	calcium ion binding; growth factor activity; peptidase activity; protein binding; receptor binding; contributes_to receptor binding; serine-type endopeptidase activity; thrombospondin receptor activity;

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