

Active Recombinant Full Length Human F2 Protein, C-Flag-tagged

Cat. No. F2-490HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human F2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes the prothrombin protein (also known as coagulation factor II). This protein is proteolytically cleaved in multiple steps to form the activated serine protease thrombin. The activated thrombin enzyme plays an important role in thrombosis and hemostasis by converting fibrinogen to fibrin during blood clot formation, by stimulating platelet aggregation, and by activating additional coagulation factors. Thrombin also plays a role in cell proliferation, tissue repair, and angiogenesis as well as maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against <i>E. coli</i> and <i>P. aeruginosa</i>. Mutations in this gene lead to various forms of thrombosis and dysprothrombinemia. Rapid increases in cytokine levels following coronavirus infections can dysregulate the coagulation cascade and produce thrombosis, compromised blood supply, and organ failure.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	MS digestion standard

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Molecular Mass	67.5 kDa
AA Sequence	MAHVRGLQLPGCLALAALCSLVHSQHVFAPQQARSLQVRRRANTFLEEVRKGNL ERECVEETCSYEEA FEALESSTATDVFWAKYTACETARTPRDKLAACLEGNAEGL GTNYRGHVNITRSGIECQLWRSRYPHKP EINSTTHPGADLQENFCRNPDSSTTGP WCYTDDPTVRRQECVIPVCGQDQVTVAMTPRSEGSSVNLSPPL EQCVPDRGQQY QGR LAVTTHGLPCLAWASAAKALSKHQDFNSAVQLVENFCRNPDGDEEGAWCY VAGKP GDFGYCDLNYCEEAVEEETGDGLDEDSRAIEGRTATSEYQTFNPRTFG SGEADCGLRPLFEKKSLEDK TERELLESYIDGRIVEGSDAEIGMSPWQVMLFRKSP QELLCGASLISDRWVLTAAHCLLYPPWDKNFTEN DLLVRIGKHSRTRYERNIEKISM LEKIYIHPRYNWRENLDRIALMKLKKPVAFSDYIHPVCLPDRETA SLLQAGYKGR VTGWGNLKETWTANVGKGQPSVLQVVNLPIVERPVCKDSTRIRITDNMFCAGYKPD EGKR GDACEGDSGGPFVMKSPFNRRWYQMGIVSWGEGCDRDGKYGFYTHVFRLLKKWVQ KVIDQFGETRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease, Secreted Protein

Protein Pathways	Complement and coagulation cascades, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton
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Full Length	Full L.
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GENE INFORMATION

Gene Name	F2 coagulation factor II, thrombin [Homo sapiens (human)]
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Official Symbol	F2
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Synonyms	PT; THPH1; RPRGL2
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Gene ID	2147
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mRNA Refseq	NM_000506.5
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Protein Refseq	NP_000497.1
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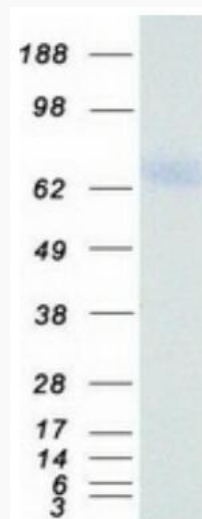
MIM	176930
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UniProt ID	P00734
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Coomassie blue staining of purified F2 protein.