

Recombinant Full Length Human F2 Protein, GST-tagged

Cat. No. F2-4495HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human F2 full-length ORF (NP_000497.1, 1 a.a. - 622 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	622 amino acids
Description	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 also plays a role in maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against E. coli and P. aeruginosa. Mutations in F2 lead to various forms of thrombosis and dysprothrombinemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]
Molecular Mass	96.4 kDa
AA Sequence	MAHVRGLQLPGCLALAALCSLVHSQHVFAPQQARSLQRRVRRANTFLEEVRKGNL ERECVEETCSYEEAFEALSSSTATDVFVWAKYTACETARTPRDKLAACLEGNAEGL GTNYRGHVNITRSGIECQLWRSRYPHKPEINSTTHPGADLQENFCRNPDSSTTGPW CYTTDPTVRRQEC SIPVCGQDQVTVMTPRSEGSSVNLSPPLEQCVPDRGQQYQG RLAVTTHGLPCLAWASAQAKALSKHQDFNSAVQLVENFCRNPDGDEEGVWCYVAG KPGDFGYCDLNYCEEAVEEETGDGLDEDSRAIEGRTATSEYQTFNPRTFGSGEA

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DCGLRPLFEKKSLEDKTERELLESYIDGRIVEGSDAEIGMSPWQVMLFRKSPQELL
 GASLISDRWVLTAAHCLLYPPWDKNFTENDLLVRIGKHSRTRYERNIEKISMLEKIYIH
 PRYNWRENLDRLDIALMKLKKPVAFSDYIHPVCLPDRETAASLLQAGYKGRVTGWGN
 LKETWTANVGKGQPSVLQVVNLPIVERPVCKDSTRIRITDNMFCAGYKPDEGKRGD
 ACEGDSGGPFVMKSPFNNRWYQMGIVSWGEGCDRDGKYGFYTHVFRLKKWIKVI
 DQFGE

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

F2 coagulation factor II (thrombin) [Homo sapiens]

Official Symbol

F2

Synonyms

F2; coagulation factor II (thrombin); prothrombin; serine protease; prothrombin B-chain; PT; THPH1;

Gene ID

2147

mRNA Refseq

NM_000506

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Protein Refseq	NP_000497
MIM	176930
UniProt ID	P00734

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