

Recombinant Full Length Human F10 Protein, GST-tagged

Cat. No. F10-4474HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human F10 full-length ORF (AAH46125, 32 a.a. - 488 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	32-488 amino acids
Description	This gene encodes the vitamin K-dependent coagulation factor X of the blood coagulation cascade. This factor undergoes multiple processing steps before its preproprotein is converted to a mature two-chain form by the excision of the tripeptide RKR. Two chains of the factor are held together by 1 or more disulfide bonds; the light chain contains 2 EGF-like domains, while the heavy chain contains the catalytic domain which is structurally homologous to those of the other hemostatic serine proteases. The mature factor is activated by the cleavage of the activation peptide by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway). The activated factor then converts prothrombin to thrombin in the presence of factor Va, Ca²⁺, and phospholipid during blood clotting. Mutations of this gene result in factor X deficiency, a hemorrhagic condition of variable severity. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides. [provided by RefSeq, Aug 2015]

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Molecular Mass	76.01 kDa
AA Sequence	NNILARVTRANSFLEEMKKGHLERECMEETCSYEEAREVFEDSDKTNEFWNKYKDG DQCETSPCQNQGKCKDGLGEYTCTCLEGFEGKNCELFTRKLCSLDNGDCDQFCHE EQNSVVCSCARGYTLADNGKACIPTGPYPGKQTLERRKRSVAQATSSSGEAPDSI TWKPYDAADLDPTENPFDLLDFNQTPERGDNNLTRIVGGQECKDGECPPWQALLIN EENEGFCGGTILSEFYILTAHCLYQAKRFKVRVGDNRNTEQEEGGAEVHEVEVVIKH NRFTKETYDFDI AVLRLKTPITFRMNVAPACLPERDWAESTLMTQKTGIVSGFGRTH EKGRQSTR LKMLEV PYVDRNSCKLSSSFITQNMFCAGYDTKQEDACQGDSGGPHV TRFKDTYFVTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMKTRGLPKAKSHAPEV ITSSPLK
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	F10 coagulation factor X [Homo sapiens]
Official Symbol	F10
Synonyms	F10; coagulation factor X; factor Xa; prothrombinase; Stuart-Prower factor; FX; FXA;

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Gene ID	2159
mRNA Refseq	NM_000504
Protein Refseq	NP_000495
MIM	613872
UniProt ID	P00742

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