

Product datasheet for PH308506

Factor X (F10) (NM_000504) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	F10 MS Standard C13 and N15-labeled recombinant protein (NP_000495)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208506
Predicted MW:	54.7 kDa
Protein Sequence:	>RC208506 protein sequence Red =Cloning site Green =Tags(s)

MGRPLHLVLLSASLAGLLLLGESLFIRREQANNILARVTRANSFLEEMKKGHLERECMEETCSYEEAREV
 FEDSDKTNEFWNKYKDGQCETSPCQNQGKCKDGLGEYTCTCLEGFEGKNCELFTRKLCSLDNGDCDQFC
 HEEQNSVVCSCARGYTLADNGKACIPTGPYPCGKQTLERRKRSVAQATSSSGEAPDSITWKPYDAADLDP
 TENPFDLLDFNQTPERGDNNLTRIVGGQECKDGECWPQALLINEENEGFCGGTILSEFYILTAAHCLYQ
 AKRFKVRVGDNRTEQEEGGEAVHEVEVVIKHNRFKETYDFDIAVLRCLKTPITFRMNVAPACLPERDWAE
 STLMTQKTGIVSGFGRTHEKGRQSTRCLKLEVPYVDRNSCKLSSSFIIITQNMFCAGYDTKQEDACQGDGSG
 GPHVTRFKDITYFTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMKTRGLPKAKSHAPEVITSSPLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000495</u>
RefSeq Size:	1560
RefSeq ORF:	1464
Synonyms:	FX; FXA


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Locus ID: 2159

UniProt ID: [P00742](#), [Q5JVE7](#)

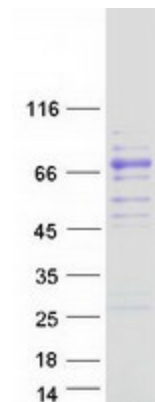
Cytogenetics: 13q34

Summary: 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]

Protein Families: Druggable Genome, Protease, Transmembrane

Protein Pathways: Complement and coagulation cascades

Product images:



Coomassie blue staining of purified F10 protein (Cat# [TP308506]). The protein was produced from HEK293T cells transfected with F10 cDNA clone (Cat# [RC208506]) using MegaTran 2.0 (Cat# [TT210002]).