

Recombinant Human F10 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. F10-769H Lot. No. (See product label)

SPECIFICATION

Product Overview	F10 MS Standard C13 and N15-labeled recombinant protein (NP_000495) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	54.7 kDa

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AA Sequence

MGRPLHLVLLSASLAGLLLLGESLFIRREQANNILARVTRANSFLEEMKKGHLERECM
 EETCSYEEAREVFEDSDKTNEFWNKYKDGDCQETSPCQNQGKCKDGLGEYTCTCL
 EGFEGKNCELFTRKLCSLDNGDCDQFCHEEQNSVVCSCARGYTLADNGKACIPTG
 PYPCGKQTLERRKRSVAQATSSSGEAPDSITWKPYDAADLDPTENPFDLLDFNQTTQ
 PERGDNNLTRIVGGQECKDGECPWQALLINEENEGFCGGTILSEFYILTAHCLYQA
 KRFKVRVGDNRNTEQEEGGAEVHEVEVVIKHNRFKETYDFDIAVLRRLKTPITFRMN
 APACLPERDWAESTLMTQKTGIVSGFGRTHEKGRQSTRLKMLEVPYVDRNSCKLSS
 SFITQNMFCAGYDTKQEDACQGDSSGPHVTRFKDTYFVTGIVSWGEGCARKGKY
 GIYTKVTAFLKWIDRSMKTRGLPKAKSHAPEVITSSPLKTRTRPLEQKLISEEDLAAND
 ILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

F10 coagulation factor X [Homo sapiens (human)]

Official Symbol

F10

Synonyms

F10; coagulation factor X; factor Xa; prothrombinase; Stuart-Prower factor; FX; FXA;

Gene ID

2159

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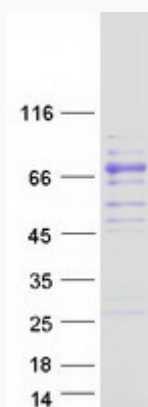
mRNA Refseq [NM_000504](#)

Protein Refseq [NP_000495](#)

MIM [613872](#)

UniProt ID [P00742](#)

SDS-PAGE



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