

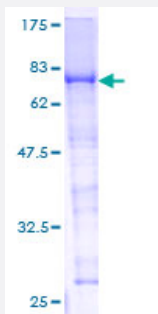
Full-Length

F10 (Human) Recombinant Protein (P01)

Catalog # H00002159-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human F10 full-length ORF (AAH46125, 32 a.a. - 488 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

NNILARVTRANSFLEEMKKGHLERECMEETCSYEEAREVFEDSDKTNEFWNKYKDGQDCETSP
CQNQGKCKDGLGEYTCTCLEGFEGKNCELFTRKLCSLDNGDCDQFCHEEQNSVVCSCARGYTL
ADNGKACIPTGPYPCGKQTLERRKRSVAQATSSSGEAPDSITWKPYDAADLDPTENPFDLLDFN
QTQPERGDNNLTRIVGGQECKDGECPWQALLINEENEGFCGGTILSEFYILTAAHCLYQAKRFKVR
VGDRNTEQEEGGEAVHEVEVVIKHNRFKETYDFDI AVLRLKTPITFRMNVAPACLPERDWAESTL
MTQKTGMVSGFGRTHEKGRQSTR LKMLEVPYVDRNSCKLSSSFITQNMFCAGYDTKQEDACQGD
SGGPHVTRFKDTYFVTGMVSWGEGCARKGKYGYTKVTAFLKWIDRSMKTRGLPKAKSHAPEVITS
SPLK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.01

Interspecies Antigen Sequence

Mouse (78); Rat (76)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — F10

Entrez GeneID [2159](#)

GeneBank Accession# [BC046125](#)

Protein Accession# [AAH46125](#)

Gene Name F10

Gene Alias FX, FXA

Gene Description coagulation factor X

Omim ID [227600](#)

Gene Ontology [Hyperlink](#)

Gene 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. [provided by RefSeq]

Other Designations

OTTHUMP00000018735|Stuart-Prower factor|factor Xa|prothrombinase

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Chronic Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Premature Birth](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)