

Factor X, Human Plasma recombinant protein
Stuart factor, Stuart-Prower factor
Catalog # PBV11264r**Specification**

Factor X, Human Plasma recombinant protein - Product info

Primary Accession [P00742](#)
Calculated MW **58.8 kDa KDa**

Factor X, Human Plasma recombinant protein - Additional Info

Gene ID **2159**
Gene Symbol **F10**
Other Names
Stuart factor, Stuart-Prower factor

Gene Source **Human**
Source **Human Plasma**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **No**
Results **Lot dependent**
Target/Specificity
Factor X

Format
Liquid

Storage
-80°C; In 20 mM Tris-HCl, 0.1 M NaCl, 1 mM Benzamidine pH 7.4.

Factor X, Human Plasma recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Factor X, Human Plasma recombinant protein - Images**Factor X, Human Plasma recombinant protein - Background**

Factor X is a vitamin K-dependent protein zymogen which is synthesized in the liver and circulates

in plasma as a two chain molecule linked by a disulfide bond. Prior to secretion into plasma, post-translational modifications produce 11 gamma-carboxyglutamic acid (gla) residues and a single b-hydroxyaspartic acid residue, which are located within the NH₂-terminal light chain. The light chain also contains two epidermal growth factor (EGF) homology domains. The COOH-terminal heavy chain of factor X contains most of the carbohydrate moieties, as well as the latent serine protease domain. The activation of factor X is catalyzed by either the intrinsic factor Xase complex (factor IXa, factor VIIIa, cellular surface and calcium ions) or the extrinsic factor Xase complex (factor VIIa, tissue factor, cellular surface and calcium ions).

Factor X, Human Plasma recombinant protein - References

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Leytus S.P.,et al.Biochemistry 25:5098-5102(1986).
Fung M.R.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:3591-3595(1985).
Kaul R.K.,et al.Gene 41:311-314(1986).
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