

Factor X, Human Plasma

CATALOG #:	7688-400	400 µg
ALTERNATE NAMES:	Stuart factor, Stuart-Prower factor	
SOURCE:	Human Plasma. Purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeldt-Jakob Disease).	
MOL. WEIGHT:	58.8 kDa	
PURITY:	≥ 95% by SDS-PAGE; Shows no reduction upon incubation with 2-mercaptoethanol.	
EXTINCTION COEFFICIENT (1%):	11.6	
FORM:	Liquid	
FORMULATION:	In 20 mM Tris-HCl, 0.1 M NaCl, 1 mM Benzamidine pH 7.4.	
ACTIVITY:	Lot dependent. Determined via clotting assay.	
STORAGE CONDITIONS:	Store at -60°C or lower. Avoid repeated freezing and thawing cycles.	

DESCRIPTION: 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).

RELATED PRODUCTS:

- Factor Va, Human Plasma (**Cat. No. 4098-10, 50**)
- Factor VII, Human Plasma (**Cat. No. 7686-100**)
- Factor VIIa, Human Plasma (**Cat. No. 7687-100**)
- Factor Xa, Human Plasma (**Cat. No. 7689-400**)
- Factor XII, Human Plasma (**Cat. No. 7690-250**)
- Factor XIIa, Human Plasma (**Cat. No. 7691-250**)

FOR RESEARCH USE ONLY! Not to be used in humans.