

Factor VIIa, gla domainless (Human)

0.10 mg

Ref#: HFVIIA-GD

Lot#: xxxxxx

Exp. Date: xxxx-xx



Store at $\leq -60^{\circ}\text{C}$

For Research Use Only

Not for Use in Diagnostic Procedures

For *in vitro* Use Only

Description:	Factor VIIa, gla domainless (Human)
Format:	Lyophilized in 7 mM Tris-HCl / 50 mM NaCl / 1.4 mM EDTA / 30% glycerol / pH 8.5
Host:	Human
Applications:	For Research Use Only. Not for Use in Diagnostic Procedures. For <i>in vitro</i> Use Only
Storage:	Store at $\leq -60^{\circ}\text{C}$
Volume:	1 vial containing 0.085 mL
Total Protein:	0.10 mg
Concentration:	1.18 mg/mL by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.9$

Coagulation Factor VII (FVII) is a 50 kDa vitamin K-dependent glycoprotein synthesized in the liver and composed of a single polypeptide chain. FVII is present in plasma as a zymogen, and can be autoactivated by Tissue Factor (TF) in the presence of calcium. FVII may also be activated to FVIIa by several proteases including thrombin, FIXa, FXa, FXIa and FXIIa. The FVIIa-TF complex participates in the activation of FX and FIX. The normal Factor VII concentration in human plasma is about 0.5 $\mu\text{g}/\text{mL}$.

Human Factor VIIa was prepared from homogeneous human Factor VII using human Factor XIIa. The Factor XIIa was removed using a Corn Trypsin Inhibitor column. The Factor VIIa was then treated with Cathepsin G which was removed using affinity chromatography after digestion.

The above protein was purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV 1/2, 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 (Creutzfeld-Jakob Disease).