

Factor VIIa Inactivated (Human)

0.10 mg

Ref#: HF7AI

Lot#: xxxxxx

Exp. Date: xxxx-xx



Store at +2 to +8°C

For Research Use Only

Not for Use in Diagnostic Procedures

For *in vitro* Use Only

Description:	Factor VIIa Inactivated (Human)
Format:	Lyophilized in 0.03 M Tris-HCl / 0.15 M NaCl / 0.1% PEG-8000 / 4% Ficoll-400 / pH 7.2
Host:	Human
Applications:	For Research Use Only. Not for Use in Diagnostic Procedures. For <i>in vitro</i> Use Only
Storage:	Store between +2 and +8°C After reconstitution aliquot and freeze at ≤-60°C
Reconstitution:	We recommend hydrating the protein with sterile water to the original volume
Volume:	1 vial containing 0.169 mL
Total Protein:	0.10 mg
Concentration:	0.59 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.9$
Molecular weight:	50,000 daltons

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 µg/mL.

The 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. FVIIa is >95% pure by SDS-PAGE.

Human Factor VIIa was inactivated using a commercially available chloromethylketone (PPACK II), this inactivator was then removed via dialysis.

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).