

Factor VIIa (Human)

0.10 mg

Ref#: HF7A

Lot#: xxxxxx

Exp. Date: xxxx-xx



For Research Use Only
Not for Use in Diagnostic Procedures
For *in-vitro* Use Only

| | |
|--------------------------|---|
| Description: | Factor VIIa (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 |
| 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 0.091 mL |
| Total Protein: | 0.10 mg |
| Concentration: | 1.10 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.9$ |
| Activity: | 37392 Plasma Equivalent Units (PEU)/mg |
| 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.

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).