

# Factor IXa-beta (Human)

0.50 mg

Ref#: HF9AB-5

Lot#: xxxxxx

Exp. Date: xxxx-xx



For Research Use Only  
Not for Use in Diagnostic Procedures  
For *in vitro* use only

<b>Description:</b>	Factor IXa-beta (Human)
<b>Format:</b>	Lyophilized in 50 mM MES / 0.6 M NaCl / pH 6.2 (NaOH)
<b>Host:</b>	Human
<b>Storage:</b>	Store between +2 and +8°C After reconstitution aliquot and freeze at ≤ -60°C
<b>Reconstitution:</b>	We recommend hydrating the protein with sterile water to the original volume
<b>Volume:</b>	Vial containing 0.420 mL
<b>Total Protein:</b>	0.50 mg
<b>Concentration:</b>	1.19 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 14.3$
<b>Activity:</b>	6.89 Plasma Equivalent Units (PEU)/mg
<b>Molecular weight:</b>	45,000 daltons

Coagulation Factor IX (FIX), also known as Christmas Factor, is a 55 kDa vitamin K-dependent glycoprotein synthesized in the liver and composed of a single polypeptide chain. FIX is present in plasma as a zymogen and, when activated to FIXa by Factor XIa in the presence of calcium, thrombin and phospholipids, it forms an active complex with thrombin-activated FVIII:C, which is then able to convert FX into FXa. Factor IX may also be activated by the FVII-Tissue Factor complex. The normal F IX concentration in human plasma is about 4-5 µg/mL.

The human Factor IXa-beta was activated with bovine FXIa from homogeneous human FIX. FXIa was removed after activation. Complete activation was observed on SDS-Page.

We suggest hydrating the protein to the original volume with water. After hydration aliquot into a useful (one time use) size and freeze at <-60°C.

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).