

# Factor IX (Human)

## 0.50 mg

Ref#: HF9  
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

<b>Description:</b>	Factor IX (Human)
<b>Format:</b>	Lyophilized in 20 mM Tris-HCl / 0.1 M NaCl / 1 mM Benzamidine/ pH 7.3
<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>	1 vial containing 0.219 mL
<b>Total Protein:</b>	0.50 mg
<b>Concentration:</b>	2.28 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.2$
<b>Activity:</b>	306.50 Plasma Equivalent Units (PEU)/mg
<b>Molecular weight:</b>	55,000 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. 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 purity on SDS-PAGE is >95 %. It shows no reduction upon incubation with 2-mercaptoethanol.

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).