www.neobiolab.com info@neobiolab.com 888.754.5670, +1 617.500.7103 United States 0800.088.5164, +44 020.8123.1558 United Kingdom

F9 Human

Description: Human Factor-IX produced from fresh frozen human plasma is a glycosylated polypeptide chain having a molecular mass of 56 kDa.

Synonyms: Coagulation factor IX, EC 3.4.21.22, Christmas factor, Plasma thromboplastin component, PTC, F9, FIX, HEMB, MGC129641, MGC129642, GLA domain, Factor IX.

Source: Human Plasma.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The Factor-IX was lyophilized from a sterile solution containing 20mM Tris-HCl pH-7.4, 0.1M NaCl and 1mM Benzamidine.

Stability:

Lyophilized Factor-IX although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Factor-IX should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized 100U Factor-IX in sterile 100µl of 18M-cm H2O, which can then be further diluted to other aqueous solutions.

Introduction:

Human Factor IX also called Christmas-Factor is a glycoprotein, which is synthesized in the liver and belongs to the serine proteases system and is part of the S1 peptidase family.Lack of Factor-IX causes Hemophilia-B meaning Christmas Disease. Factor-IX has a N-terminus region which contains 12xGla residues which asist the calcium dpendant binding of Factor-IX to the phospholipid surface. Factor-IX is activated by either factor XIa or the factor VIIa/tissue factor/phospholipid complex. Cleavage yields the intermediate IXa, which is subsequently converted to the fully active form IXab.Factor-IX binds initially to exosites on the factor XIa heavy chain, followed by interaction at the active site with subsequent bond cleavage. Coagulation factor IX is activated by interaction with the erythrocyte membrane, causing intrinsic coagulation. Chaperones & lectins act simultaniously to guarantee the proper folding of Factor-IX and the retention of mutant molecules. Human Factor IX, activated by either the Contact or Tissue Factor Pathway, is responsible for the activation of Factor X to Xa.

Biological Activity:

The activity per mg was tested and found to be 230 PEU/mg.

To place an order, please Click HERE.











Catalog #: PRPS-360

For research use only.