

Coagulation Factor IX Active Protein | F9 active protein

Human Coagulation Factor IX

CATALOG #
AAA38450

HOST
Human Plasma

PRODUCT SYNONYMS

Coagulation Factor IX; Human Coagulation Factor IX; F9 Human; Coagulation Factor IX Human; Coagulation factor IX; EC 3.4.21.22; Christmas factor; Plasma thromboplastin component; PTC; F9; FIX; HEMB; MGC129641; MGC129642; GLA domain; Factor IX; F9 active protein

PRODUCT SPECIFICATIONS

Host	Human Plasma
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The Factor-IX was lyophilized from a sterile solution containing 20mM Tris-HCl pH-7.4, 0.1M NaCl and 1mM Benzamidine. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence Length	461
Solubility	It is recommended to reconstitute the lyophilized 100U Factor-IX in sterile 100 ul of 18M Omega -cm H ₂ O, which can then be further diluted to other aqueous solutions.
Human Virus Test	Human plasma was tested and found negative for HIV-1, HIV-2, Hepatitis B Surface antigen and HCV. Donors are screened for CJD (Creutzfeldt-Jakob Disease).
Biological Activity	The activity per mg was tested and found to be 230 PEU/mg.
Preparation and Storage	Lyophilized Factor-IX although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Factor-IX should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for F9 active protein	Description: Human Factor-IX produced from fresh frozen human plasma is a glycosylated polypeptide chain having a molecular mass of 56 kDa. 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 assist the calcium dependent 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 simultaneously 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.
Product Categories/Family for F9 active protein	Recombinant & Natural Proteins; Natural Proteins; Coagulation Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503649
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NCBI GeneID	2158
NCBI Accession #	NP_000124.1
NCBI GenBank Nucleotide #	NM_000133.3
Molecular Weight	47,618 Da
NCBI Official Full Name	coagulation factor IX preproprotein
NCBI Official Synonym Full Names	coagulation factor IX
NCBI Official Symbol	F9
NCBI Official Synonym Symbols	FIX; P19; PTC; HEMB; THPH8
NCBI Protein Information	coagulation factor IX; Christmas factor; F9 p22; FIX F9; factor 9; factor IX F9; plasma thromboplastic component; plasma thromboplastin component
UniProt Protein Name	Coagulation factor IX
UniProt Gene Name	F9
UniProt Synonym Gene Names	PTC
UniProt Entry Name	FA9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-plasma-f9-active-protein/coagulation-factor-ix/38450>