

Recombinant Human Coagulation Factor IX Protein

Catalog No.: RP03590

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2158	P00740

Tags

C-His

Synonyms

F9;Coagulation factor IX; Coagulation factor IXa light chain;PTC

Product Information

Source	Purification
HEK293 Cells	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.

Calculated MW	Observed MW
50 kDa	60-80 kDa

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method.

Formulation

Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Coagulation factor IX, also known as Christmas factor, Plasma thromboplastin component and PTC, is a secreted protein which belongs to the peptidase S1 family. Coagulation factor IX / F9 contains two EGF-like domains, one Gla (gamma-carboxy-glutamate) domain and one peptidase S1 domain. Coagulation factor IX / F9 is a vitamin K-dependent plasma protein that participates in the intrinsic pathway of blood coagulation by converting factor X to its active form in the presence of Ca²⁺ ions, phospholipids, and factor VIIIa. Defects in Coagulation factor IX / F9 are the cause of thrombophilia due to factor IX defect which is a hemostatic disorder characterized by a tendency to thrombosis. Defects in Coagulation factor IX / F9 are also the cause of recessive X-linked hemophilia B (HEMB) which is also known as Christmas disease.

Basic Information

Description

Recombinant Human Coagulation Factor IX Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met 1-Thr 461) of Human Factor IX (Accession # AAB59620.1) fused with His tag at the C-Terminus.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

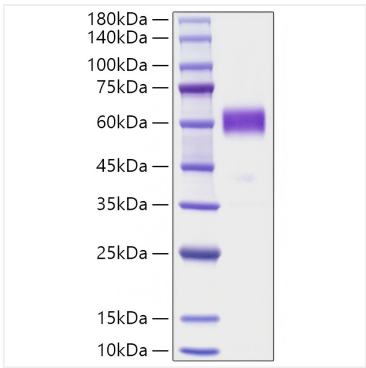
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

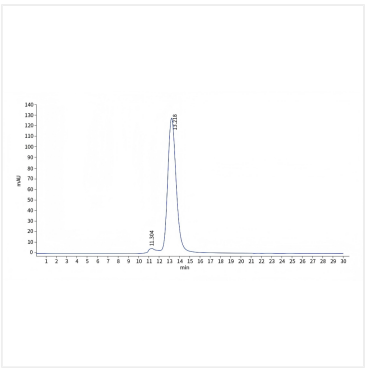
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Validation Data



Recombinant Coagulation Human Factor IX Protein as determined by SDS-PAGE.



Recombinant Coagulation Human Factor IX Protein as determined by SEC-HPLC.