Recombinant Human Coagulation Factor IX Protein

Catalog No.: RP03590

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Sequence Information

Species
Human

Gene ID
2158

Swiss Prot
P00740

Tags
C-His

Synonyms
F9,Coagulation factor IX, Coagulation factor IXa light chain, PTC

Product Information

Source
HEK293 Cells

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

Calculated MW
50 kDa

Observed MW
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 stablizer (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+ons, 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 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.

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℃

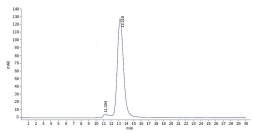
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

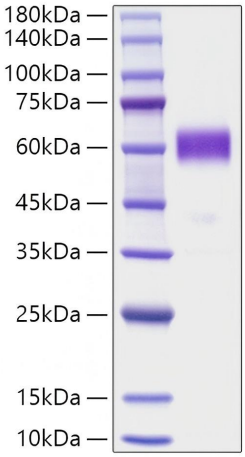
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Validation Data



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



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