



Synonym

Coagulation factor Ix,PTC,F9,THPH8,FIX,Plasma Thromboplastic Component,factor Ix

Source

Human Coagulation factor IX Protein, His Tag(FIX-H52H3) is expressed from human 293 cells (HEK293). It contains AA Thr 29 - Thr 461 (Accession # [P00740-1](#)).

Predicted N-terminus: Thr 29

Molecular Characterization

**F9(Thr 29 - Thr 461)
P00740-1**

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 50.6 kDa. The protein migrates as 60-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in 50 mM Tris,150 mM NaCl,pH8.0 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

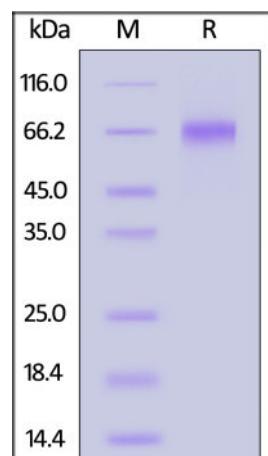
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

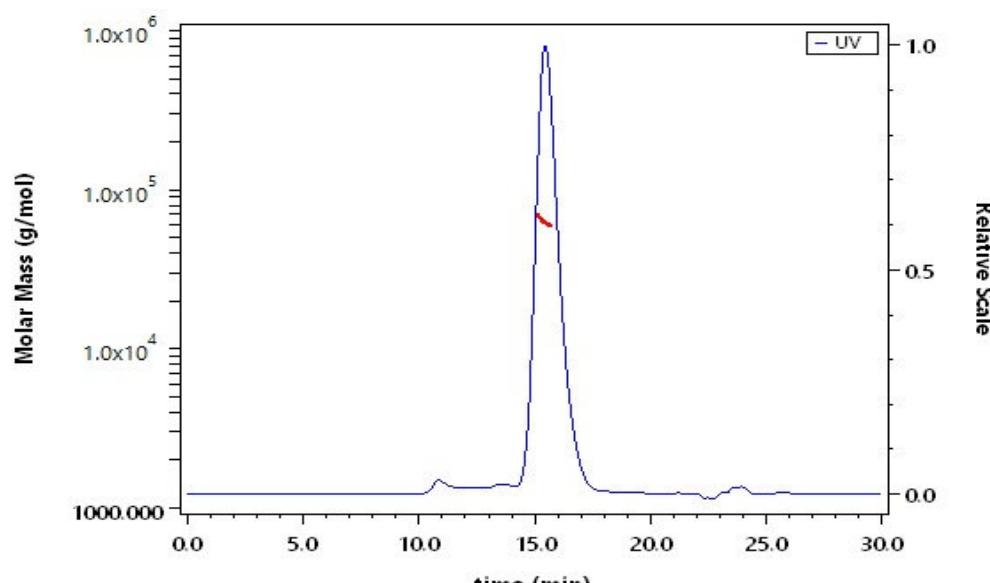
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Coagulation factor IX Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human Coagulation factor IX Protein, His Tag (Cat. No. FIX-H52H3) is more than 90% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)

Bioactivity

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Measured by its ability to cleave the fluorogenic peptide substrate, Mca-
RPKPVE-Nval-WRK(Dnp)-NH₂. The specific activity is 54-107 pmol/min/μg
(QC tested).

Background

Coagulation Factor IX is also known as F9, FIX, and P19. Factor IX 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, and plays an important role in the intrinsic blood coagulation cascade. As a key component of the clotting cascade, Factor IX helps form stable blood clots and prevents excessive bleeding.

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