

Human Coagulation factor X / F10 Protein, His Tag (MALS verified)

Catalog # F10-H52H3



BIOSYSTEMS
Acro

Synonyms

Coagulation factor X, F10, factor 10, factor X, Stuart Factor, Stuart-Prower factor

Source

Human Coagulation factor X Protein, His Tag (F10-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 24 - Lys 488 (Accession # [P00742](#)).

Predicted N-terminus: Leu 24

Molecular Characterization

F10(Leu 24 - Lys 488) P00742	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 54.3 kDa. The protein migrates as 18-19 kDa, 45-55 kDa and 65-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

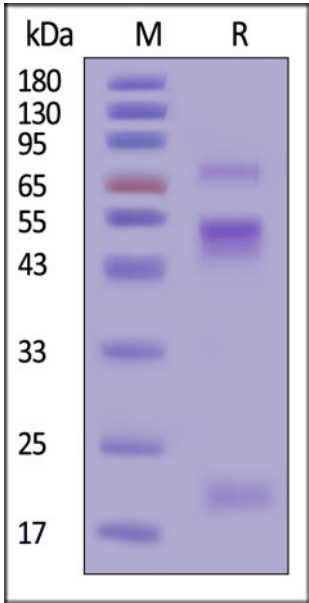
This product is stable after storage at:

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

ACRO Quality Management System

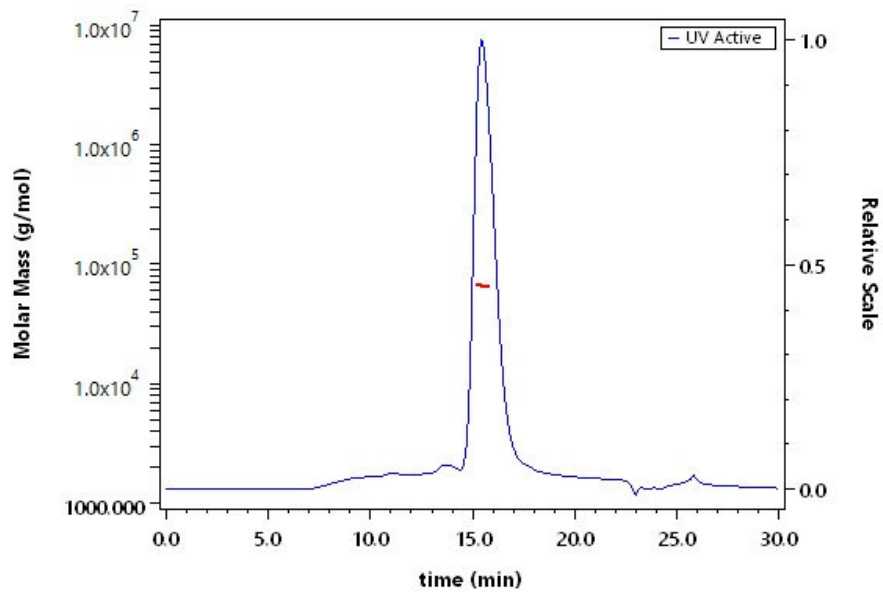
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



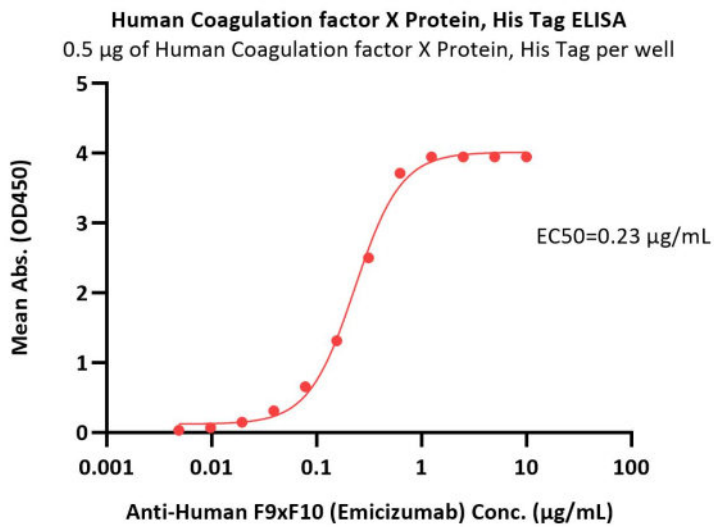
Human Coagulation factor X Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human Coagulation factor X Protein, His Tag (Cat. No. F10-H52H3) is more than 90% and the molecular weight of this protein is around 55-75 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human Coagulation factor X Protein, His Tag (Cat. No. F10-H52H3) at 5 µg/mL (100 µL/well) can bind Anti-Human F9xF10 (Emicizumab) with a linear range of 0.005-0.625 µg/mL (QC tested).

Background

As the only known physiological activator of thrombin, Factor X is a vitamin K-dependent plasma protease that plays a pivotal role in blood coagulation.



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