

Human Coagulation factor XI (C500S) Protein

Cat. No. FXI-HM10D

Description

Source	Recombinant Human Coagulation factor XI (C500S) Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ile388-Val625 (C500S).
Accession	P03951-1
Molecular Weight	The protein has a predicted MW of 28.43 kDa. Due to glycosylation, the protein migrates to 30-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

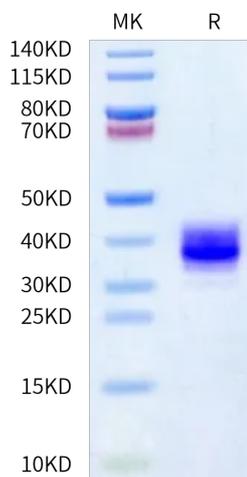
Formulation	Lyophilized from 0.22 µm filtered solution in 25mM HEPES, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Coagulation factor (F)XI has been described as a component of the early phase of the contact pathway of blood coagulation, acting downstream of factor XII. In contrast to its mild hemostatic activities, FXI is known to play a significant role in thrombosis, as it is a demonstrated independent risk factor for deep vein thrombosis, ischemic stroke, and myocardial infarction. A better understanding of the varied and complex role of FXI in both thrombosis and hemostasis will help to allow better prediction of bleeding risk in FXI-deficient patients and also informing the development of targeted agents to inhibit the thrombotic activities of FXI while preserving hemostasis.

Assay Data

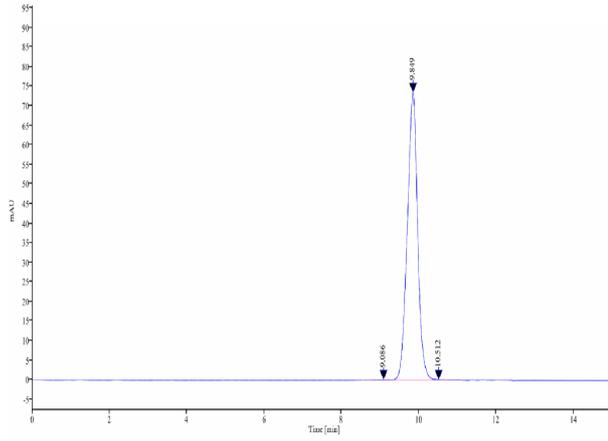
Bis-Tris PAGE



Human Coagulation factor XI (C500S) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



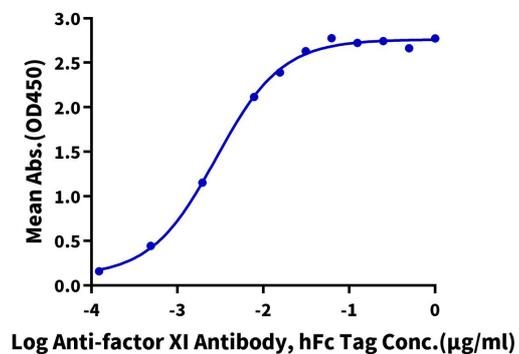
The purity of Human Coagulation factor XI (C500S) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Coagulation factor XI (C500S), His Tag ELISA

0.05µg Human Coagulation factor XI (C500S), His Tag Per Well



Immobilized Human Coagulation factor XI (C500S), His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-factor XI Antibody, hFc Tag with the EC50 of 2.8ng/ml determined by ELISA.