Human Coagulation factor XI (C500S) Protein, Ultra Low Endotoxin

Cat. No. FXI-HM10D-UL

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 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

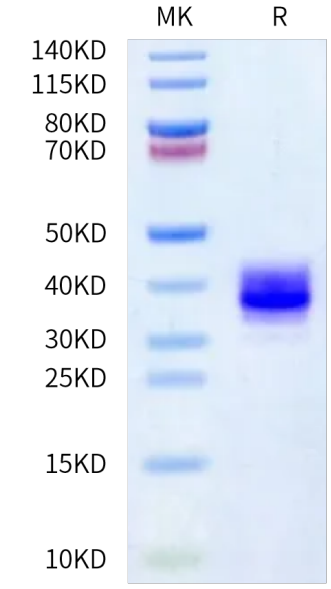
Formulation	Lyophilized from 0.22 μm filtered solution in 25mM HEPES, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

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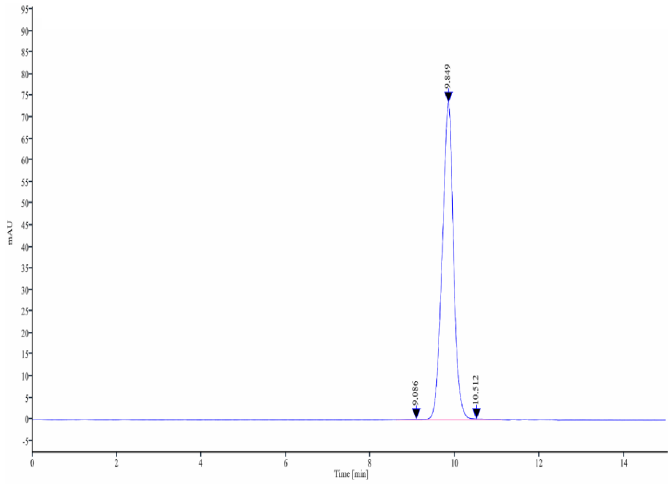
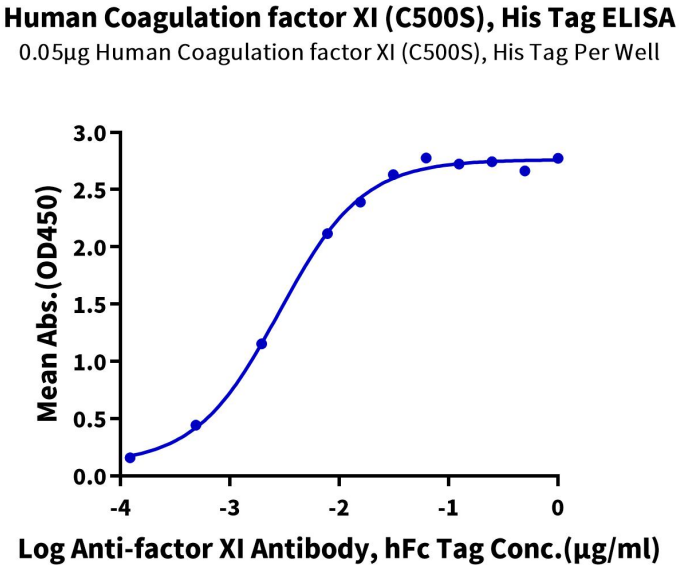
Assay Data



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

ELISA Data



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.