

Human Coagulation factor XI (C321S) Protein (pro form)



Cat. No. FXI-HM1CS

Description

Source	Recombinant Human Coagulation factor XI (C321S) Protein (pro form) is expressed from HEK293 with His tag at the C-terminus. The protein needs to be activated by Thermolysin for an activated form.
	It contains Glu19-Val625 (C321S).
Accession	P03951-1
Molecular Weight	The protein has a predicted MW of 69.62 kDa. Due to glycosylation, the protein migrates to 75-95 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

Formulation	Supplied as 0.22 µm filtered solution in 25mM HEPES, 150mM NaCl (pH 7.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. 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.

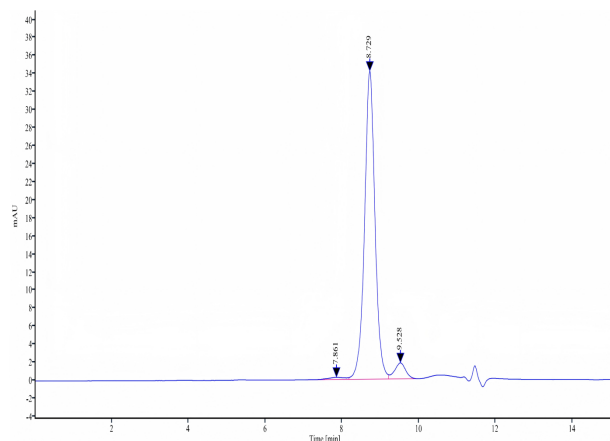
Assay Data

Bis-Tris PAGE



Human Coagulation factor XI (C321S) on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC



The purity of Human Coagulation factor XI (C321S) is greater than 90% as determined by SEC-HPLC.

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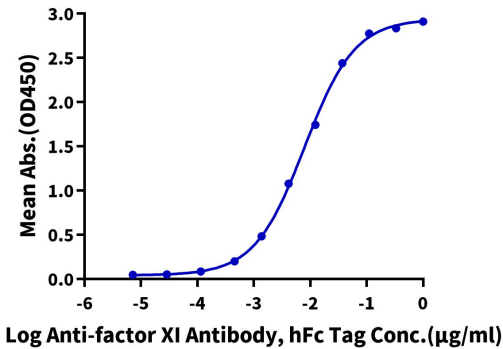


Assay Data

ELISA Data

Human Coagulation Factor XI (C321S), His Tag ELISA

0.05µg Human Coagulation Factor XI (C321S), His Tag Per Well



Immobilized Human Coagulation Factor XI (C321S), 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 7.9ng/ml determined by ELISA.

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate, t-butyloxycarbonyl-Ile-Glu-Gly-Arg-7-amido-4-methylcoumarin (Boc-IEGR-AMC). The specific activity is >100 pmoles/min/µg.