Biotinylated Human Coagulation factor XI Protein (pro form)

Cat. No. FXI-HM401B

Description

Source	Recombinant Biotinylated Human Coagulation factor XI Protein (pro form) is expressed from HEK293 with His tag and Avi tag at the C-terminus. The protein needs to be activated by Thermolysin for an activated form.
	It contains Glu19-Val625.
Accession	P03951-1
Molecular Weight	The protein has a predicted MW of 70.93 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	> 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



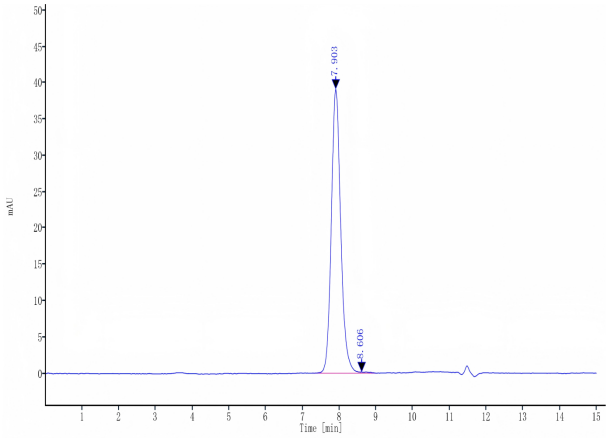
Biotinylated Human Coagulation factor XI on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data



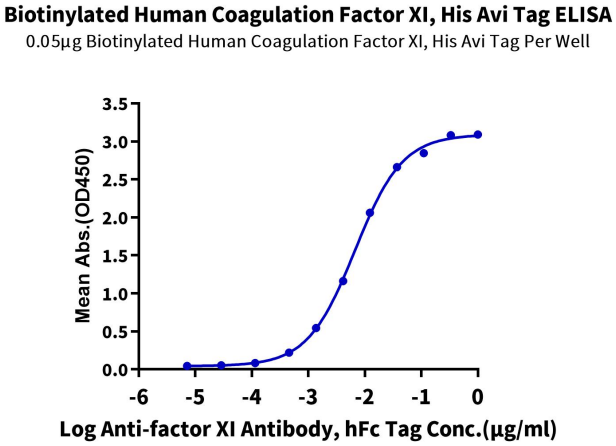
The purity of Biotinylated Human Coagulation factor XI is greater than 95% as determined by SEC-HPLC.

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Assay Data

ELISA Data



Immobilized Biotinylated Human Coagulation Factor XI, His Avi Tag at 0.5μg/ml (100μl/Well) on streptavidin (5μg/ml) precoated plate. Dose response curve for Anti-factor XI Antibody, hFc Tag with the EC50 of 6.7ng/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.

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