

Recombinant Cynomolgus Coagulation factor XI Protein (pro form)

Catalog No.: RP03593

Sequence Information

Species **Gene ID**
Cynomolgus 102143421

Swiss Prot **Tags**
XP_005556540.2 C-His

Synonyms

FXI; PTA; F11; Coagulation factor XI

Product Information

Source **Purification**
HEK293 cells > 95% as determined by HPLC

Calculated MW **Observed MW**
69.05 kDa 70-85 kDa due to glycosylation.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Factor XI (FXI) is the zymogen of a plasma protease (FXIa) that contributes to hemostasis by activating factor IX (FIX). In the original cascade model of coagulation, FXI is converted to FXIa by factor XIIa (FXIIa), a component, along with prekallikrein and high-molecular-weight kininogen (HK), of the plasma kallikrein-kinin system (KKS).

Basic Information

Description

Recombinant Cynomolgus Coagulation factor XI Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu44-Ala650) of Cynomolgus Coagulation factor XI (Accession #XP_005556540.2) fused with His tag at the C-Terminus. The protein needs to be activated by Thermolysin for an activated form.

Activity

1. Immobilized Cynomolgus Coagulation factor XI, 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 4.9ng/ml determined by ELISA (QC Test).
2. 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 >50 pmoles/min/μg. (QC Test).

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

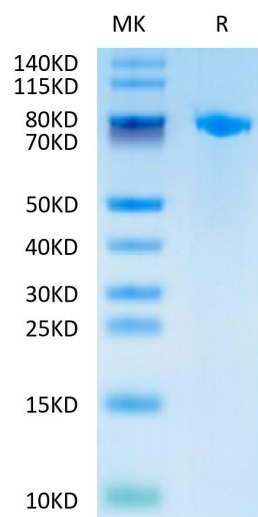
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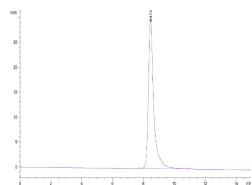
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

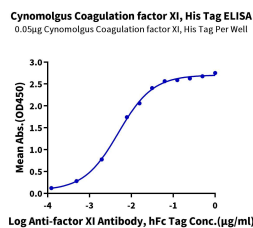
Validation Data



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



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



Immobilized Cynomolgus Coagulation factor XI, 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 4.9ng/ml determined by ELISA (QC Test).