Active Recombinant Human FXI protein, His-tagged

Cat. No. F11-290H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FXI protein(Glu 19 - Val 625), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	19-625 a.a.
Form	Lyophilized from 0.22 μm filtered solution in 25 mM HEPES, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	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 > 200 pmol/min/μg
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus. The proprotein is activated by factor XIIa (or XII) and cleaved after Arg-387 into the light chain with calculated MW of 28.7 kDa, which contains the active site, and the heavy chain with calculated MW of 41.2 kDa. The protein migrates as 47 kDa (heavy chain) and 35 kDa (light chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.
Proteinlength	Glu19-Val625
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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Purity	>90% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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