

Native Human Coagulation Factor XI

Cat. No. F11-2466H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Factor XI is a two-chain glycoprotein prepared from fresh human plasma using several chromatographic steps. MW160kDa.
Species	Human
Source	Human Plasma
Description	Human coagulation factor XI, encoded by the F11 gene, is present in plasma as a zymogen, which is a unique plasma coagulation enzyme because it exists as a homodimer consisting of two identical polypeptide chains linked by disulfide bonds. During activation of the plasma factor XI, an internal peptide bond is cleaved by factor XIIa (or XII) in each of the two chains, resulting in activated factor XIa, a serine protease composed of two heavy and two light chains held together by disulfide bonds. This activated plasma factor XI triggers the middle phase of the intrinsic pathway of blood coagulation by activating factor IX. Defects in this factor lead to Rosenthal syndrome, a blood coagulation abnormality.
Concentration	1.0 mg/ml
Purity	>95% by SDS-PAGE analysis
Form	Frozen liquid.
Shipping Information	Recommended Storage: -70oC; Shipping Conditions: Dry ice; Minimum Shelf Life: 3 years from delivery.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	F11 coagulation factor XI [Homo sapiens]
Official Symbol	F11
Synonyms	F11; coagulation factor XI; FXI; MGC141891; Coagulation factor XI; Plasma thromboplastin antecedent; Coagulation factor XIa heavy chain; Coagulation factor XIa light chain; EC 3.4.21.27; EC 3.4.21
Gene ID	2160
mRNA Refseq	NM_000128
Protein Refseq	NP_000119
MIM	264900
UniProt ID	P03951
Chromosome Location	4q35
Pathway	Blood Clotting Cascade; Complement and coagulation cascades; Formation of Fibrin Clot (Clotting Cascade); Hemostasis; Intrinsic Pathway
Function	heparin binding; protein binding;serine-type endopeptidase activity
PDBrendering based on 1xx9.	

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