

Native Human F10

Cat. No. F10-26055TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native human Factor Xa, prepared by activating purified factor X with the factor X activator isolated from Russells viper venom.
Species	Human
Description	This gene encodes the vitamin K-dependent coagulation factor X of the blood coagulation cascade. This factor undergoes multiple processing steps before its preproprotein is converted to a mature two-chain form by the excision of the tripeptide RKR. Two chains of the factor are held together by 1 or more disulfide bonds; the light chain contains 2 EGF-like domains, while the heavy chain contains the catalytic domain which is structurally homologous to those of the other hemostatic serine proteases. The mature factor is activated by the cleavage of the activation peptide by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway). The activated factor then converts prothrombin to thrombin in the presence of factor Va, Ca²⁺, and phospholipid during blood clotting. Mutations of this gene result in factor X deficiency, a hemorrhagic condition of variable severity.
Tissue specificity	Plasma; synthesized in the liver.
Biological activity	Specific activity is ~1000 units/mg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase S1 family.Contains 2 EGF-like domains.Contains 1 Gla (gamma-carboxy-glutamate) domain.Contains 1 peptidase S1 domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	F10 coagulation factor X [Homo sapiens]
Official Symbol	F10
Synonyms	F10; coagulation factor X;
Gene ID	2159
mRNA Refseq	NM_000504
Protein Refseq	NP_000495
MIM	613872
Uniprot ID	P00742
Chromosome Location	13q34
Pathway	Blood Clotting Cascade, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem;

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Complement and coagulation cascades, conserved biosystem;

Function

calcium ion binding; peptidase activity; phospholipid binding; protein binding; serine-type endopeptidase activity;

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