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Datasheet for ABIN7195158 Coagulation Factor X Protein (F10) (His tag)



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Quantity:	50 µg
Target:	Coagulation Factor X (F10)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Coagulation Factor X protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human Coagulation Factor X/F10 Protein (His Tag)
Sequence:	Met 1-Lys 488
Characteristics:	A DNA sequence encoding the full length of human coagulation factor X (NP_000495.1) (Met 1- Lys 488) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Target Details	

Target:	Coagulation Factor X (F10)	
Alternative Name:	Coagulation Factor X/F10 (F10 Products)	
Background:	Background: Coagulation factor X, also known as FX, F10, Eponym Stuart-Prower factor, and	
	thrombokinase, is an enzyme of the coagulation cascade. It is one of the vitamin K-dependent	
	serine proteases, and plays a crucial role in the coagulation cascade and blood clotting, as the	

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	first enzyme in the common pathway of thrombus formation. Factor X deficiency is one of the	
	rarest of the inherited coagulation disorders. FX deficiency among the most severe of the rare	
	coagulation defects, typically including hemarthroses, hematomas, and umbilical cord,	
	gastrointestinal, and central nervous system bleeding. Factor X is synthesized in the liver as a	
	mature heterodimer formed from a single-chain precursor, and vitamin K is essential for its	
	synthesis. Factor X is activated into factor Xa (FXa) by both factor IX (with its cofactor, factor	
	VIII in a complex known as intrinsic Xase) and factor VII (with its cofactor, tissue factor in a	
	complex known as extrinsic Xase) through cleaving the activation propeptide. As the first	
	member of the final common pathway or thrombin pathway, FXa converts prothrombin to	
	thrombin in the presence of factor Va, Ca2+, and phospholipid during blood clotting and cleaves	
	prothrombin in two places (an arg-thr and then an arg-ile bond). This process is optimized when	
	factor Xa is complexed with activated cofactor V in the prothrombinase complex. Inborn	
	deficiency of factor X is very uncommon, and may present with epistaxis (nose bleeds),	
	hemarthrosis (bleeding into joints) and gastrointestinal blood loss. Apart from congenital	
	deficiency, low factor X levels may occur occasionally in a number of disease states.	
	Furhermore, factor X deficiency may be seen in amyloidosis, where factor X is adsorbed to the	
	amyloid fibrils in the vasculature.	
	Synonym: Coagulation factor 10,coagulation factor X,FX,FXA	
Molecular Weight:	52.8 kDa	
NCBI Accession:	NP_000495	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 10 % glycerol	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted	
	samples are stable at < -20°C for 3 months.	

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