Recombinant Protein Technical Manual

Recombinant Mouse Coagulation Factor X/F10 Protein (His Tag)

RPES5250

Product Data:

Product SKU: RPES5250

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: O88947

Protein Information:

Molecular Mass:	55.1 kDa
AP Molecular Mass:	55 kDa
Tag:	C-6His
Bio-activity:	
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20mM MES,?150mM NaCl?and?1mM CaCl2 pH7.5. .
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	F10;Coagulation factor X;Stuart factor

Immunogen Information:

Sequence: Gly21-Asn481

Background:

Mouse coagulation factor X / F10 a member of the peptidase S1 family. The mature F10 is composed mostly of two EGF-like domains, one Gla gamma-carboxy-glutamate domain and one peptidase S1 domain. Factor Xa is a vitamin K-dependent plasma protease that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting. The two chains of F10 are formed from a single-chain precursor by the excision of two Arg residues. A single-chain precursor is initially synthesized in the liver. The light and heavy chains are linked together by disulfide bonds. The light chain contains a Gla and two EGF-like domains. The heavy chain corresponds to the serine protease domain. It can form a heterodimer with SERPINA5.