Recombinant Mouse F10 protein, His-tagged

Cat. No. F10-2461M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse F10 protein (Gly21-Asn481) was fused to His-tag at N-terminus and expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	461
Description	This gene encodes factor X, a component of both the intrinsic and extrinsic blood coagulation pathways. The encoded protein is a zymogen that undergoes further processing in a vitamin K-dependent manner to generate mature factor X, a heterodimer comprised of disulfide-linked heavy and light chains. The mature factor X is proteolytically activated either by factor IXa (intrinsic pathway) or factor VIIa (extrinsic pathway) to form factor Xa serine endopeptidase. Activated factor Xa catalyzes the conversion of prothrombin to thrombin. A complete lack of the encoded protein is fatal to mice. A severe deficiency of the encoded protein in mice causes age-dependent iron deposition and cardiac fibrosis. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Molecular Mass	56 kDa as determined by SDS-PAGE reducing conditions.

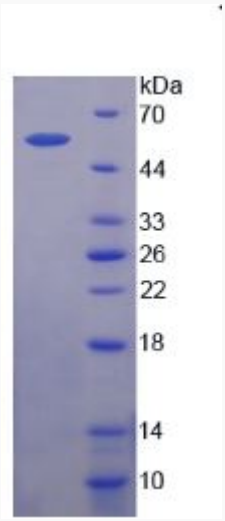
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Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	>97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	F10
Official Symbol	F10
Synonyms	fX; Cf10; FX; FXA; Stuart Prower Factor; Thrombokinase
Gene ID	14058
mRNA Refseq	NM_007972.4
Protein Refseq	NP_031998.3

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UniProt ID	O88947
SDS-PAGE of F10-2461M	

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