

Recombinant Mouse F10 Protein, MYC/DDK-tagged

Cat. No. F10-993M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse coagulation factor X (F10), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	54 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 g/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	F10 coagulation factor X [Mus musculus (house mouse)]
Official Symbol	F10
Synonyms	F10; coagulation factor X; fX; Cf10; coagulation factor X; stuart factor; EC 3.4.21.6
Gene ID	14058
mRNA Refseq	NM_007972
Protein Refseq	NP_031998
UniProt ID	O88947

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