

## Recombinant Mouse F10 Protein, MYC/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of full-length mouse coagulation factor X (F10), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	54 kDa
<b>Purity</b>	>80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	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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<b>Storage</b>	Store at -80 centigrade after receiving vials.
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<b>Concentration</b>	>50 g/mL as determined by microplate BCA method
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<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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## GENE INFORMATION

<b>Gene Name</b>	F10 coagulation factor X [ <i>Mus musculus</i> (house mouse) ]
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<b>Official Symbol</b>	F10
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<b>Synonyms</b>	F10; coagulation factor X; fX; Cf10; coagulation factor X; stuart factor; EC 3.4.21.6
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<b>Gene ID</b>	14058
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<b>mRNA Refseq</b>	NM_007972
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<b>Protein Refseq</b>	NP_031998
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<b>UniProt ID</b>	O88947
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