

Product datasheet for TP507705

F10 (NM_007972) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse coagulation factor X (F10), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207705 protein sequence Red=Cloning site Green=Tags(s)

MGSPVQLSLLCVLASLLLPGKGVFINRERANNVLARTRRANSFFEEFKKGNLERECMEEICSYEEVREI
FEDDEKTKEYWTKYKDGQCESSPCQNQGACRDGIGGYTCTCSEGFEGKNCELFVRKLCRLDNGDCDQFC
REEQNSVVCSCASGYFLGNDGKSCISTAPFPCGKITTGRRKRSVALNTSDSELDEDALLDEDFLSPTE
PIELLNLNETQPERSSDDLVRIVGGRECKDGECPWQALLVNEDEGFCGGTILNEFYILTAAHCLHQARR
FKVRVGDNRNTEKEEGNEMVHEVDVIKHNKFQRDITYDYDIAVLRKTPITFRMNVAPACL PQKDWAE
STLMTQKTGIVSGFGRTHEKGRQSNILKMLEVPYVDRNTCKLSTSFITQNMFCAGYEAKLEDACQGD
SGGPHVTRFKNTYYVTGIVSWGEGCARKGKGIYTKVTTFLKWIDRSMKARVGPTAETPRTAGPPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	54 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_031998
Locus ID:	14058



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UniProt ID: [O88947](#), [Q3TBR2](#)

RefSeq Size: 2503

Cytogenetics: 8 5.73 cM

RefSeq ORF: 1446

Synonyms: A11947; Cf10; fX

Summary: 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. [provided by RefSeq, Aug 2015]