



# Recombinant Mouse Prothrombin (F2)

<b>Product Code</b>	CSB-YP007923MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P19221
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>ANSGFLE ELRKGNLERE CVEEQCSYEE AFEALESPQD TDVFWAKYTV            CDSVRKPRET FMDCLEGRCA MDLGVNYLGT VNVTHGTGIC QLWRSRYPHK            PEINSTTHPG ADLKENFCRN PDSSTTGPWC YTTDPTVRRE ECSVPVCGQE            GRTTVVMTPR SGGSKDNLSP PLGQCLTERG RLYQGNLAVT TLGSPCLPWN            SLPKATLSKY QDFDPEVKLV ENFCRNPDWD EEGAWCYVAG QPGDFEYCNL            NYCEEAVGEE NYDVDESIAG RTTDAEFHTF FNEKTFGLGE ADCGLRPLFE            KKSLKDTTEK ELLDSYIDGR IVEGWDAEKG IAPWQVMLFR KSPQELLCGA            SLISDRWVLT AAHCILYPPW DKNFTENDLL VRIGKHSRTR YERNVEKISM            LEKIYVHPRY NWRENLDLRI ALLKLKPPV FSDYIHPVCL PDKQTVTSL            RAGYKGRVTG WGNLRETWTT NINEIQPSVL QVVNLPIVER PVCKASTRIR            ITDNMFCAGF KVNDTKRGDA CEGDSSGGPFV MKSPFNRRWY            QMGIVSWGEG CDRKGKYGFY THVFRLKRWI QKVIDQFG</p>
<b>Source</b>	Yeast
<b>Target Names</b>	F2
<b>Protein Names</b>	Recommended name: Prothrombin EC= 3.4.21.5 Alternative name(s): Coagulation factor II Cleaved into the following 4 chains: 1. Activation peptide fragment 1 2. Activation peptide fragment 2 3. Thrombin light chain 4. Thrombin
<b>Expression Region</b>	44-618
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Mutations in F2 leads to various forms of thrombosis and dysprothrombinemia.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients,



storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.