



Recombinant Human Prothrombin (F2)

Product Code	CSB-MP007923HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P00734
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	ANTFLEE VRKGNLEREC VEETCSYEEA FEALESSTAT DVFWAKYTAC ETARTPRDKL AACLEGNAE GLGTNYRGHV NITRSGIECQ LWRSRYPHKP EINSTTHPGA DLQENFCRNP DSSTTGPWCY TTDPTVRRQE CSIPVCGQDQ VTVAMTPRSE GSSVNLSPPL EQCVPDRGQQ YQGR LAVTTH GLPCLAWASA QAKALSKHQD FNSAVQLVEN FCRNPDGDEE GVWCYVAGKP GDFGYCDLNY CEEAVEEETG DGLDESDRA IEGRTATSEY QTFFNPRTFG SGEADCGLRP LFEKKSLEDK TERELLESYI DGRIVEGSDA EIGMSPWQVM LFRKSPQELL CGASLISDRW VLTA AHCLLY PPWDKNFTEN DLLVRIGKHS RTRYERNIEK ISMLEKIYIH PRYNWRENLD RDIALMKLKK PVAFSDYIHP VCLPDRETAA SLLQAGYKGR VTGWGNLKET WTANVGKGQP SVLQVVNLPI VERPVCKDST RIRITDNMFC AGYKPDEGKR GDACEGDSGG PFVMKSPFNN RWYQMGIVSW GEGCDRDGKY GFYTHVFR LK KWIQKVIDQF GE
Source	Mammalian cell
Target Names	F2
Protein Names	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
Expression Region	44-622
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.
Shelf Life	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.