



# Recombinant Human Prothrombin (F2)

<b>Product Code</b>	CSB-MP007923HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P00734
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>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</p>
<b>Source</b>	Mammalian cell
<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>	44-622
<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.



## 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.