

## Recombinant Human F2

**Cat. No.** F2-170H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human F2 protein was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</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>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol.
<b>Molecular Mass</b>	33.9kDa (296aa)
<b>AA Sequence</b>	MTFGSGEADC GLRPLFEKKS LEDKTERELL ESYIDGRIVE GSDAEIGMSP WQVMLFRKSP QELLCGASLI SDRWVLTA AH C LLYPPWDKN FTENDLLVRI GKHSRTRYER NIEKISMLEK IYIHPRYNWR ENLDRDIALM KLKKPVAFSD YIHPVCLPDR ETAASLLQAG YKGRVTGWGN LKETWTANVG KGQPSVLQVV NLPIVERPVC KDSTRIRITD NMFCAGYKPD EGKRGDACEG DSGGPFVMKS PFNNRWYQMG IVSWGEGCDR DGKYGFYTHV FRLKKWIKV IDQFGE
<b>Purity</b>	> 80% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store

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at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1.0 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** F2 coagulation factor II (thrombin) [ Homo sapiens (human) ]

**Official Symbol** F2

**Synonyms** F2; coagulationfactor II (thrombin); PT; prothrombin;serine protease; OTTHUMP00000197117; OTTHUMP00000233661; prothrombin B-chain

**Gene ID** 2147

**mRNA Refseq** NM\_000506

**Protein Refseq** NP\_000497

**MIM** 176930

**UniProt ID** P00734

**Chromosome Location** 11p11-q12

**Pathway** Angiopoietinreceptor Tie2-mediated signaling; BloodClotting Cascade; Cell surfaceinteractions at the vascular wall; CommonPathway; Diabetes pathways; G alpha (q) signalling events; GPCR downstream signaling;

**Function** calciumion binding; growth factor activity; peptidase activity; protein binding;receptor binding; contributes\_to receptor binding; serine-type endopeptidaseactivity;

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thrombospondin receptor activity

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