

Recombinant Human F2

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

SPECIFICATION

Product Overview	Recombinant human F2 protein was expressed in E.coli.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol.
Molecular Mass	33.9kDa (296aa)
AA Sequence	MTFGSGEADC GLRPLFEKKS LEDKTERELL ESYIDGRIVE GSDAEIGMSP WQVMLFRKSP QELLCGASLI SDRWVLTA AH CLLYPPWDKN FTENDLLVRI GKHSRTRYER NIEKISMLEK IYIHPRYNWR ENLDRDIALM KLKKPVAFSD YIHPVCLPDR ETAASLLQAG YKGRVTGWGN LKETWTANVG KGQPSVLQVV NLPIVERPVC KDSTRIRITD NMFCAGYKPD EGKRGDACEG DSGGPFVMKS PFNNRWYQMG IVSWGEGCDR DGKYGFYTHV FRLKKWQKV IDQFGE
Purity	> 80% by SDS - PAGE
Storage	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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