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 SDRWVLTAAH CLLYPPWDKN FTENDLLVRI GKHSRTRYER NIEKISMLEK IYIHPRYNWR ENLDRDIALM KLKKPVAFSD YIHPVCLPDR ETAASLLQAG YKGRVTGWGN LKETWTANVG KGQPSVLQVV NLPIVERPVC KDSTRIRITD NMFCAGYKPD EGKRGDACEG DSGGPFVMKS PFNNRWYQMG IVSWGEGCDR DGKYGFYTHV FRLKKWIQKV 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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