

Recombinant Human F2 Protein, His-tagged

Cat. No. F2-12619H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human F2 Protein(NP_000497.1)(Ala44~Arg198) is expressed from E. coli with a His tag at the N-terminal.
Species	Human
Source	E.coli
ProteinLength	Ala44~Arg198
Description	This gene encodes the prothrombin protein (also known as coagulation factor II). This protein is proteolytically cleaved in multiple steps to form the activated serine protease thrombin. The activated thrombin enzyme plays an important role in thrombosis and hemostasis by converting fibrinogen to fibrin during blood clot formation, by stimulating platelet aggregation, and by activating additional coagulation factors. Thrombin also plays a role in cell proliferation, tissue repair, and angiogenesis as well as maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against E. coli and P. aeruginosa. Mutations in this gene lead to various forms of thrombosis and dysprothrombinemia. Rapid increases in cytokine levels following coronavirus infections can dysregulate the coagulation cascade and produce thrombosis, compromised blood supply, and organ failure.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	The predicted molecular mass is 20.9kDa.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MGSSHHHHHSSGLVPRGSHMASMTGGQQMGRGSANTFLEEVRKGNLERECVE ETCSYEEAFEALESSTATDVFwakYTACETARTPRDKLAACLEGNCAEGLGTNYRG HVNITRSGIECQLWRSRYPHKPEINSTTHPGADLQENFCRNPDSSTTGPWCYTDDP TVRRQECSIPVCGQDQVTVAMTPR
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
GENE INFORMATION	
Gene Name	F2
Official Symbol	F2
Synonyms	FII; TM; PT; Thrombin; Prothrombin; Pro-Thrombin; Activation peptide fragment 1; Activation peptide fragment 2

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Gene ID	2147
mRNA Refseq	NM_000506.5
Protein Refseq	NP_000497.1
MIM	176930
UniProt ID	P00734

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