

Recombinant Human F2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. F2-069H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	F2 MS Standard C13 and N15-labeled recombinant protein (NP_000497) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 <i>E. coli</i> and <i>P. aeruginosa</i>. 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.
Molecular Mass	70 kDa
AA Sequence	MAHVRGLQLPGCLALAALCSLVHSQHVFAPQQARSLQVRRRANTFLEEVKGNL

 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

ERECVEETCSYEEAFEALSTATDVFWAKYTACETARTPRDKLAACLEGNAEGL
 GTNYRGHVNITRSGIECQLWRSRYPHKPEINSTTHPGADLQENFCRNPDSSTTGPW
 CYTTDPTVRRQECSIPVCGQDQVTVAMTPRSEGSSVNLSPPLEQCVPRGQQYQG
 RLAVTTHGLPCLAWASAQAKALSKHQDFNSAVQLVENFCRNPDGDEEGAWCYVAG
 KPGDFGYCDLNYCEEAVEEETGDGLDESDRAIEGRTATSEYQTTFFNPRTFGSGEA
 DCGLRPLFEKKSLEDKTERELLESYIDGRIVEGSDAEIGMSPWQVMLFRKSPQELLC
 GASLISDRWVLTAAHCLLYPPWDKNFTENDLLVRIGKHSRTRYERNIEKISMLEKIYIH
 PRYNWRENLDRIALMKLKKPVAFSDYIHPVCLPDRETAASLLQAGYKGRVTGWGN
 LKETWTANVGKGQPSVLQVVNLPIVERPVCKDSTRITDNMFCAGYKPDEGKRGD
 ACEGDSGGPFVMKSPFNRRWYQMGIVSWGEGCDRDGKYGFYTHVFRLLKKWIKVI
 DQFGETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol F2

Synonyms F2; coagulation factor II, thrombin; PT; RPRGL2; THPH1; prothrombin; prepro-coagulation factor II; prothrombin B-chain; thrombin factor II; EC 3.4.21.5

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Gene ID	2147
mRNA Refseq	NM_000506
Protein Refseq	NP_000497
MIM	176930
UniProt ID	P00734
SDS-PAGE	