Recombinant Human Coagulation Factor II (F2) protein, His-tagged

Cat. No. F2-305H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Coagulation Factor II (F2) protein (Gln25-Glu622), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	598
Description	Prothrombin is also known as coagulation factor II (F2),which can be cleaved into the following 4 chains: activation peptide fragment 1, activation peptide fragment 2, thrombin light chain and thrombin heavy chain. Coagulation factor II (F2) is able to form a heterodimer with SERPINA5. The mutations of F2 gene can result in a very rare blood coagulation disorder characterized by mucocutaneous bleeding symptoms. Furthermore, thrombin converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Coagulation factor II (F2) can also play an important role in blood homeostasis, inflammation and wound healing.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 69.5 kDa. The protein migrates as 85-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.

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

Purity	>95% as determined by reduced SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	F2
Official Symbol	F2
Synonyms	F2; coagulation factor II (thrombin); prothrombin; serine protease; prothrombin B-chain; PT; THPH1
Gene ID	2147
mRNA Refseq	NM_000506
Protein Refseq	NP_000497
MIM	176930
UniProt ID	P00734

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