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Datasheet for ABIN7536465  
**Prothrombin Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	Prothrombin (F2)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Prothrombin protein is labelled with His tag.

### Product Details

Purpose:	Recombinant human Prothrombin/F2 Protein
Sequence:	QHVFLAPQQA RLLQVRRA NTFLEEVKGL NLERECVEET CSYEEAFEAL ESSTATDVFW AKYTACETAR TPRDKLAACL EGNCAEGLGT NYRGHVNITR SGIECQLWRS RYPHKPEINS TTHPGADLQE NFCRNPDSST TGPWCYTDDP TVRRQECVIP VCGQDQVTV MTPRSEGSSV NLSPPLEQCV PDRGQQYQGR LAVTTHGLPC LAWASAQAKA LSKHQDFNSA VQLVENFCRN PDGDEEGVWC YVAGKPGDFG YCDLNYCEEA VEEETGDGLD ESDRAIEGR TATSEYQTFE NPRTFGSGEA DCGLRPLFEK KSLEDKTERE LLESYIDGRI VEGSDAEIGM SPWQVMLFRK SPQELLCGAS LISDRWVLT AHCLLYPPWD KNFTENDLLV RIGKHSRTRY ERNIEKISML EKIYIHPRYN WRENLRDIA LMKLKKPVAF SDYIHPVCLP DRETAASLLQ AGYKGRVTGW GNLKETWTAN VGKGQPSVLQ VVNLPIVERP VCKDSTRIRI TDNMFCAGYK PDEGKRGDAC EGDGGPFVVM KSPFNRRWYQ MGIVSWGEGC DRDGKYGFYT HVFRLKKWIQ KVIDQFGE
Specificity:	Gln25-Glu622
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered

## Product Details

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Endotoxin Level: < 0.1EU/μg

## Target Details

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Target: Prothrombin (F2)

Alternative Name: Prothrombin/F2 ([F2 Products](#))

Background: Description: Coagulation Factor II Protein (FII, F2 Protein or Prothrombin) is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. Coagulation Factor II Protein (FII, F2 Protein) also plays a role in maintaining vascular integrity during development and postnatal life. Prothrombin / Coagulation Factor II is activated on the surface of a phospholipid membrane that binds the amino end of prothrombin / Coagulation Factor II and factor Va and Xa in Ca-dependent interactions, factor Xa removes the activation peptide and cleaves the remaining part into light and heavy chains. The activation process starts slowly because factor V itself has to be activated by the initial, small amounts of thrombin.

Name: PT, THPH1, RPRGL2

Gene ID: 2147

UniProt: [P00734](#)

Pathways: [Complement System](#), [Peptide Hormone Metabolism](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Concentration: 0.73 mg/mL

Buffer: Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

## Handling

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Storage: -20 °C,-80 °C

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Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.