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Datasheet for ABIN7504306

**Prothrombin Protein (AA 25-617) (His tag)**

## Overview

Quantity:	100 µg
Target:	Prothrombin (F2)
Protein Characteristics:	AA 25-617
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Prothrombin protein is labelled with His tag.

## Product Details

Purpose:	Rat Coagulation Factor II Protein
Sequence:	Gln25-Arg617
Characteristics:	Recombinant Rat Coagulation Factor II Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln25-Arg617.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

## Target Details

Target:	Prothrombin (F2)
Alternative Name:	Coagulation Factor II ( <a href="#">F2 Products</a> )

## Target Details

Background:	Prothrombin, or coagulation factor II, is a multidomain zymogen precursor of thrombin that undergoes an allosteric equilibrium between two alternative conformations, open and closed, that react differently with the physiological activator prothrombinase. It has 10 sites of gamma-carboxylation, which are required for its bioactivity, and is N-glycosylated at three of four putative sites.
Molecular Weight:	69.12 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
NCBI Accession:	<a href="#">NP_075213</a>
Pathways:	<a href="#">Complement System</a> , <a href="#">Peptide Hormone Metabolism</a> , <a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months