

# **Product** Data Sheet

# Prothrombin Protein, Human (HEK293, His)

Cat. No.: HY-P701216

Synonyms: PT; RPRGL2; THPH1

Species: Human Source: HEK293

Accession: P00734 (M1-E622)

Gene ID: 2147

Molecular Weight: Approximately 75-100 kDa

## **PROPERTIES**

AA Sequence	MAHVRGLQLP GCLALAALCS LVHSQHVFLA PQQARSLLQR VRRANTFLEE VRKGNLEREC VEETCSYEEA FEALESSTAT DVFWAKYTAC ETARTPRDKL AACLEGNCAE GLGTNYRGHV NITRSGIECQ LWRSRYPHKP EINSTTHPGA DLQENFCRNP DSSTTGPWCY TTDPTVRRQE CSIPVCGQDQ VTVAMTPRSE GSSVNLSPPL EQCVPDRGQQ YQGRLAVTTH GLPCLAWASA QAKALSKHQD FNSAVQLVEN FCRNPDGDEE GAWCYVAGKP GDFGYCDLNY CEEAVEEETG DGLDEDSDRA IEGRTATSEY QTFFNPRTFG SGEADCGLRP LFEKKSLEDK TERELLESYI DGRIVEGSDA EIGMSPWQVM LFRKSPQELL CGASLISDRW VLTAAHCLLY PPWDKNFTEN DLLVRIGKHS RTRYERNIEK ISMLEKIYIH PRYNWRENLD RDIALMKLKK PVAFSDYIHP VCLPDRETAA SLLQAGYKGR VTGWGNLKET WTANVGKGQP SVLQVVNLPI VERPVCKDST RIRITDNMFC AGYKPDEGKR GDACEGDSGG PFVMKSPFNN RWYQMGIVSW GEGCDRDGKY
Appearance	Lyophilized powder
Formulation	Lyophilized from sterile 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH $_2$ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

Page 1 of 2 www. Med Chem Express. com

## **DESCRIPTION**

### Background

The Prothrombin protein, also known as Factor II, serves as a critical player in various physiological processes. Thrombin, a serine protease derived from prothrombin, cleaves bonds following Arg and Lys residues, facilitating the conversion of fibrinogen into fibrin. Additionally, prothrombin actively participates in the activation of key factors such as V, VII, VIII, and, when in conjunction with thrombomodulin, protein C. Beyond its central role in blood homeostasis, prothrombin contributes significantly to inflammation and the intricate process of wound healing.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com