

## Prothrombin Protein, Human, Recombinant (His)

### General Information

Synonyms: Coagulation factor II; Prothrombin; F2

Protein Construction: 44-622 aa

Species: Human

Expression Host: P. pastoris (Yeast)

Accession: P00734

Molecular Weight: 67.3 kDa (predicted)

AA Sequence: ANTFLEEVKGNLERECVEETCSYEEAFEALLESSTATDVFVWAKYTACETARTPRDKLAACLEGNCAEGLGTNY  
RGHVNITRSGIECQLWRSRYPHKPEINSTTHPGADLQENFCRNPDSSTTGPWCYTTDPTVRRQEC SIPVCGQD  
QVTVAMTPRSEGSSVNLSPPLEQCVPDRGQQYQGR LAVTTHGLPCLAWASAQAKALSKHQDFNSAVQLVE  
NFCRNPDGDEEGVWCYVAGKPGDFGYCDLNYCEEAVEEETGDGLDESDRAIEGRTATSEYQTFNPRTFGS  
GEADCGLRPLFEKKSLEDKTERELLESYIDGRIVEGSDAEIGMSPWQVMLFRKSPQELLCGASLISDRWVLTAA  
HCLLYPPWDKNFTENDLLVRIGKHSRTRYERNIEKISMLEKIYIHPRYNWRENLRDIALMKLKPPVAFSDYIHP  
VCLPDRETAASLLQAGYKGRVTGWGNLKETWTANVGKGPVSVLQVVNLPIVERPVCKDSTRIRITDNMFCAG  
YKPDDEGKRGDACEGDSGGPFVMKSPFNRRWYQMGI VSWGEGCDRDGKYGFYTHVFRLLKWKVIQKVIDQFGE

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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