# Recombinant human Coagulation Factor II/Thrombin protein

Catalog Number: ATGP2663

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
328-622aa

**UniProt No.**
P00734

**NCBI Accession No.**
NP_000497

**Alternative Names**
Coagulation factor II, Factor II (thrombin), PT

## PRODUCT SPECIFICATION

**Molecular Weight**
33.9 kDa (296aa)

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**
> 80% by SDS-PAGE

**Tag**
Non-Tagged

**Application**
SDS-PAGE, Denatured

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
Coagulation factor II, also known as F2, is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Mutations in F2 lead to various forms of thrombosis and dysprothrombinemia. Recombinant human F2 protein was expressed in E. coli.

**Amino acid Sequence**
MTFGSGEADC GLRPLFEKKS LEDKTERELL ESYIDGRIVE GSDAEIGMSP WQVMLFRKSP QELLCGASLI SDRWVLTAAH

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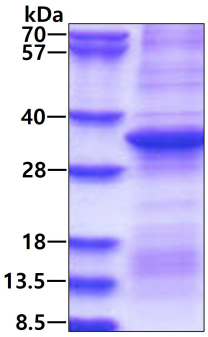
CLLYPPWDKN FTENDLLVRI GKHSRTRYER NIEKISMLEK IYIHPRYNWR ENLDRDIALM KLKKPVAFSD YIHPVCLPDR ETAASLLQAG YKGRVTGWGN LKETWTANVG KGQPSVLQVV NLPIVERPVC KDSTRIRITD NMFCAGYKPD EGKRGDACEG DSGGPFVMKS PFNNRWYQMG IVSWGEGCDR DGKYGFYTHV FRLKKWIQKV IDQFGE

**General References**

Royle NJ, Irwin DM, Koschinsky ML., et al. (1987) Somat. Cell Mol. Genet. 13 (3): 285-92

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.