

# Recombinant human TFPI protein

Catalog Number: ATGP3609

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

29-304aa

### UniProt No.

P10646

### NCBI Accession No.

NP\_006278.1

### Alternative Names

Tissue factor pathway inhibitor isoform, TFPI, EPI, LACI, TFI, TFPI1

## PRODUCT SPECIFICATION

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### Molecular Weight

33 kDa (285aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### 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

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### Description

TFPI, also known as tissue factor pathway inhibitor isoform, is the major regulator of tissue factor (TF) -induced coagulation. It is predominantly produced by microvascular endothelial cells, though it is also found in platelets, monocytes, smooth muscle cells, and plasma. It is an anticoagulant protein that inhibits early phases of the procoagulant response. It has been shown to be associated with breast cancer pathogenesis. It consists of a

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highly negatively charged amino-terminus, three tandemly linked Kunitz domains, and a highly positively charged carboxy-terminus. It exhibits significant homology with human inter-alpha-trypsin inhibitor and bovine basic pancreatic trypsin inhibitor. Recombinant human TFPI, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

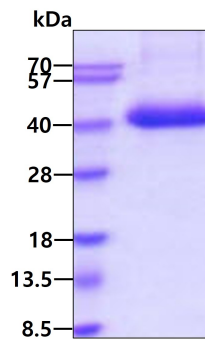
<ADP>DSEED EE HTIITDTELP PLKLMHSFCA FKADDGPKCA IMKRFFFNIF TRQCEEFIYG GCEGNQNRFE SLEECKMCT RDNANRIIKT TLQQEKPDFC FLEEDPGICR GYITRYFYNN QTKQCERFKY GGCLGNMNNF ETLEECKNIC EDGPNGFQVD NYGTQLNAVN NSLTPQSTKV PSLFEFHGPS WCLTPADRGL CRANENRFYY NSVIGKCRPF KYSGCGGNEN NFTSKQECLR ACKKGFQRI SKGGLIKTKR KRKKQRVKIA YEEIFVKNM<H HHHHH>

## General References

Maroney SA., et al. (2010) Thromb Res. 1:S52-S56.  
Ali HO., et al. (2016) PLoS One. 11:e0152114.

## DATA

### SDS-PAGE



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