Recombinant human TFPI protein

Catalog Number: ATGP3609

PRODUCT INFORMATION

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

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

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

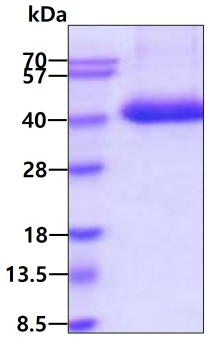
<ADP>DSEEDEE HTIITDTELP PLKLMHSFCA FKADDGPCKA IMKRFFFNIF TRQCEEFIYG GCEGNQNRFE SLEECKKMCT RDNANRIIKT TLQQEKPDFC FLEEDPGICR GYITRYFYNN QTKQCERFKY GGCLGNMNNF ETLEECKNIC EDGPNGFQVD NYGTQLNAVN NSLTPQSTKV PSLFEFHGPS WCLTPADRGL CRANENRFYY NSVIGKCRPF KYSGCGGNEN NFTSKQECLR ACKKGFIQRI SKGGLIKTKR KRKKQRVKIA YEEIFVKNM<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.