Recombinant human TFPI protein

Catalog Number: ATGP2333

PRODUCT INFORMATION

Expression system
E.coli

Domain
29-304aa

UniProt No.
P10646

NCBI Accession No.
NP_006278

Alternative Names
tissue factor pathway inhibitor, EPI, LACI, TFI, TFPI1

PRODUCT SPECIFICATION

Molecular Weight
34.3 kDa (299aa)

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 85% by SDS-PAGE

Tag
His-Tag

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
TFPI is a protease inhibitor that regulates the tissue factor (TF) -dependent pathway of blood coagulation. The coagulation process initiates with the formation of a factor VIIa-TF complex, which proteolytically activates additional proteases (factors IX and X) and ultimately leads to the formation of a fibrin clot. The protein inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. TFPI is glycosylated and predominantly found in the vascular endothelium and plasma in both free forms and complexed with plasma lipoproteins. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of

some of these variants has not been confirmed. Recombinant human TFPI protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

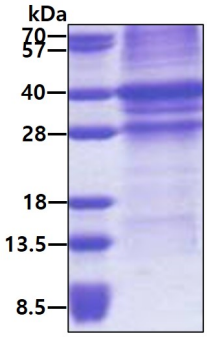
<MGSSHHHHHH SSGLVPRGSH MGS>DSEEDEE HTIITDTELP PLKLMHSFCA FKADDGPCKA IMKRFFFNIF TRQCEEFIYG GCEGNQNRFE SLEECKKMCT RDNANRIIKT TLQQEKPDFC FLEEDPGICR GYITRYFYNN QTKQCERFKY GGCLGNMNNF ETLEECKNIC EDGPNGFQVD NYGTQLNAVN NSLTPQSTKV PSLFEFHGPS WCLTPADRGL CRANENRFYY NSVIGKCRPF KYSGCGGNEN NFTSKQECLR ACKKGFIQRI SKGGLIKTKR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

General References

Prabhakar,P., et al. (2012) Thromb. Res. 130 (4), 687-689
Alioglu,B., et al. (2012) J Clin Res Pediatr Endocrinol 4 (3), 146-150

DATA

SDS-PAGE



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