

Recombinant Human TFPI Protein, Full Length, C-His tagged

Cat. No. TFPI-42FLH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human TFPI, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Baculovirus
ProteinLength	Full Length
Description	This gene encodes a Kunitz-type serine 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 product of this gene inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. Inhibition of the encoded protein restores hemostasis in animal models of hemophilia. This gene encodes multiple protein isoforms that differ in their inhibitory activity, specificity and cellular localization.
Form	Liquid
Molecular Mass	33 kDa (285aa)
AA Sequence	DSEEDDEHTIITDELPLKLMHSFCAFKADDGPCKAIMKRFFFNIFTRQCEEFIYGGC EGNQNRFESELEECKKMCTRDNANRIIKTTLQQEKPDFCFLEEDPGICRGYITRYFYN NQTQKCERFKYGGCLGNMNNFETLEECKNICEDGPNFGQVDNYGTQLNAVNNLSLT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PQSTKVPSLFEFHGPSWCLTPADRGLCRANENRFYNSVIGKCRPFKYSGCCGGNE
 NNFTSKQECLRACKKGFQIRISKGLIKTKRKRKKQRVKIAYEEIFVKNM

Endotoxin < 1 EU/μg protein by LAL

Purity > 90% as determined by SDS-PAGE

Applications SDS-PAGE

Notes For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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

Concentration 0.25 mg/mL (determined by absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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

GENE INFORMATION

Gene Name TFPI tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) [Homo sapiens (human)]

Official Symbol TFPI

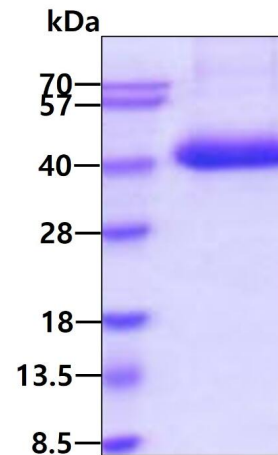
Synonyms TFPI; tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor); LACI; tissue factor pathway inhibitor; EPI; extrinsic pathway inhibitor; TFI; TFPI1; anti-

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Gene ID 7035**mRNA Refseq** NM_006287**Protein Refseq** NP_006278**MIM** 152310**UniProt ID** P10646**SDS-PAGE analysis
of purified SPAM1**

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

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