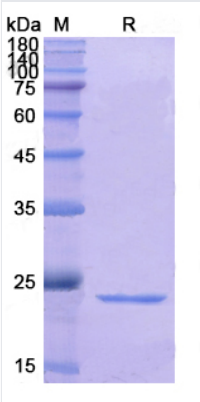
TFPI Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TFPI, Recombinant Protein
Full Product Name	Recombinant Human TFPI, N-His
Product Gene Name	TFPI recombinant protein
Product Synonym Names	Extrinsic pathway inhibitor; Lipoprotein-associated coagulation inhibitor; TFPI; EPI; LACI; TFPI1; Tissue factor pathway inhibitor
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	35,015 Da
Sequence Positions	Asp29-Phe209
Chromosome Location	Chromosome: 2; NC_000002.11 (188328957..188419219, complement). Location: 2q32
OMIM	152310
3D Structure	ModBase 3D Structure for P10646
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for TFPI recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TFPI recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for TFPI recombinant protein	MBS1573268 is a recombinant protein targeting TFPI. Also known as Recombinant Human TFPI, N-His. Host: E coli.
Other Notes	Small volumes of TFPI recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of TFPI recombinant protein
SDS PAGE for recombinant Human TFPI protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFPI. It may not necessarily be applicable to this product.

NCBI GI #	73760409
NCBI GeneID	7035
NCBI Accession #	NP_001027452.1
UniProt Primary Accession #	P10646
UniProt Secondary Accession #	O95103; Q53TS4
UniProt Related Accession #	P10646
GenBank Nucleotide #	NM_001032281.2
NCBI Official Full Name	tissue factor pathway inhibitor isoform b
NCBI Official Synonym Full Names	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)
NCBI Official Symbol	TFPI
NCBI Official Synonym Symbols	EPI; TFI; LACI; TFPI1
UniProt Protein Name	Tissue factor pathway inhibitor
UniProt Synonym Protein Names	Extrinsic pathway inhibitor; EPI; Lipoprotein-associated coagulation inhibitor
Protein Family	Tissue factor pathway inhibitor
UniProt Gene Name	TFPI
UniProt Synonym Gene Names	LACI; TFPI1; TFPI; EPI; LACI
UniProt Entry Name	TFPI1_HUMAN
NCBI Protein Information	tissue factor pathway inhibitor; anti-convertin; extrinsic pathway inhibitor
NCBI Summary for TFPI	This gene encodes 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 product of this gene inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. The encoded protein 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. [provided by RefSeq, Jul 2008]

UniProt Comments for TFPI	TFPI: Inhibits factor X (X(a)) directly and, in a Xa-dependent way, inhibits VIIa/tissue factor activity, presumably by forming a quaternary Xa/LACI/VIIa/TF complex. It possesses an antithrombotic action and also the ability to associate with lipoproteins in plasma. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Membrane protein, GPI anchor; Secreted, signal peptide; Inhibitor Chromosomal Location of Human Ortholog: 2q32 Cellular Component: extracellular space; cell surface; endoplasmic reticulum; extracellular region; plasma membrane Molecular Function: serine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity Biological Process: blood coagulation, extrinsic pathway; blood coagulation
Research Articles on TFPI	**1.** TFPI inhibited MCP-3 expression induced by TNF-alpha; this effect may be propagated through the NF-kappaB/IkappaB-alpha pathway.
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