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## Product Data Sheet

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Product Name: TFPI Human, Sf9

Cat. No.: GP24809

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tissue Factor Pathway Inhibitor (Lipoprotein-Associated Coagulation Inhibitor); Extrinsic Pathway Inhibitor; Tissue Factor Pathway Inhibitor; anti-convertin; TFPI1; EPI; LACI; TFI.		
Amino Acid Sequence	ADPDSEEDDEE HTIITDTTELP PLKLMHSFCA FKADDGPCKA IMKRFFFNIF TRQCEEFYIG GCEGNQNRFE SLEECKMCT RDNANRIIKT TLQQEKPDFC FLEEDPGICR GYITRYFYNN QTKQCERFKY GGCLGNMNNF ETLEECKNIC EDGPNGFQVD NYGTQLNAVN NSLTPQSTKV PSLFEFHGPS WCLTPADRGL CRANENRFYY NSVIGKCRPF KYSGCGGNEN NFTSKQECLR ACKKGFIQRI SKGGLIKTKR KRKKQRVKIA YEEIFVKNMH HHHHH.		
Formulation	TFPI protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

TFPI is a protease inhibitor which controls the tissue factor (TF)-dependent pathway of blood coagulation. The coagulation process starts with the creation of a factor VIIa-TF complex, that proteolytically triggers additional proteases (factors IX and X) and eventually results in a fibrin clot. TFPI inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. TFPI is glycosylated and predominantly located in the vascular endothelium and plasma in both free forms and complexed with plasma lipoproteins. A number of alternatively spliced transcript variants of this gene have are known, however the full-length nature of several of these variants were not yet established.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

TFPI Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 285 amino acids (29-304a.a.) and having a molecular mass of 33kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). TFPI is expressed with a 9 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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