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## Product Data Sheet

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Product Name: TFPI Human  
 Cat. No.: GP24808  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
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	MGSSHHHHHH SGLVPRGSH MGSDSEEDDEE HTIITDTELP PLKLMHSFCA FKADDGPCKA IMKRFFFNIF TRQCEEFIYG GCEGNQNRFE SLEECKMCT RDNANRIIKT TLQQEKPDFC FLEEDPGICR GYITRYFYNN QTKQCERFKY GGCLGNMNNF ETLEECKNIC EDGPNGFQVD NYGTQLNAVN NSLTPQSTKV PSLFEFHGPS WCLTPADRGL CRANENRFYY NSVIGKCRPF KYSGCGGNEN NFTSKQECLR ACKKGFQRI SKGGLIKTKR KRKKQRVKIA YEEIFVKNM.		
Formulation	The TFPI solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea 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 E.coli is a single, non-glycosylated polypeptide chain containing 299 amino acids (29-304) and having a molecular mass of 34.3kDa.

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