

## 32-5063: Recombinant Human Tissue Factor Pathway Inhibitor

**Alternative Name** Tissue Factor Pathway Inhibitor (Lipoprotein-Associated Coagulation Inhibitor), Extrinsic Pathway Inhibitor, Tissue Factor Pathway Inhibitor, anti-converting, TFPI1, EPI, LACI, TFI.

### Description

Source : Escherichia Coli. 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. TFPI is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 85.0% as determined by SDS-PAGE.  
**Content :** The TFPI solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer 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.  
**Amino Acid :** MGSSHHHHH SSGLVPRGSH MGS DSEED E E HTIITDTELP PLKLMHSFCA FKADDGPCKA IMKRFFFNIF TRQCEEFY G GCEGNQRFE SLEECKMCT RDNANRIKT TLQEKPDFC FLEEDPGICR GYITRYFYNN QTKQCERFKY GGCLGNMNNF ETLEECKNIC EDGPNGFQVD NYGTQLNAVN NSLTPQSTKV PSLFEFHGPS WCLTPADRGL CRANENRFYY NSVIGKCRPF KYSGCGGNEN NFTSKQECLR ACKKGFQRI SKGGLIKTKR KRKKQRVKIA YEEIFVKNM.

