

**TFPI, 29-304aa, Human, His tag, E.coli**

**Cat.NO.: TP04185**

3th Edition

**Synonyms:**tissue factor pathway inhibitor, EPI, LACI, TFI, TFPI1

**Description:**TFPI is 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 protein inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. TFPI 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. Recombinant human TFPI protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

**Molecular Weight:**34.3kDa (299aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSDSEEDDEHTIITDTELPPLKLMHSFCAFKADDGPCKAIMKRFFFNIFTRQCEE  
FIYGGCEGNQNRFESELECKKMCTRDNANRIIKTTLQQEKPDFCFLEEDPGICRGYITRYFYNNQTKQCERFKYGG  
CLGNMNNFETLEECKNICEDGPNGFQVDNYGTQLNAVNNSLTPQSTKVPSLFEFHGPSWCLTPADRGLCRANEN  
RFYNSVIGKCRPFKYSGCGGNENNFTSKQECLRACKKGFIRISKGGLIKTKRKRKKQRVKIAYEEIFVKNM

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.