

## TFPI Protein, Human (HEK293, His)

Cat. No.:	HY-P77227
Synonyms:	Tissue factor pathway inhibitor; EPI; LACI; TFPI1
Species:	Human
Source:	HEK293
Accession:	P10646/NP_006278.1(D29-K282)
Gene ID:	7035
Molecular Weight:	42-45 kDa

### PROPERTIES

AA Sequence	<pre> D S E E D E E H T I   I T D T E L P P L K   L M H S F C A F K A   D D G P C K A I M K R F F F N I F T R Q   C E E F I Y G G C E   G N Q N R F E S L E   E C K K M C T R D N A N R I I K T T L Q   Q E K P D F C F L E   E D P G I C R G Y I   T R Y F Y N N Q T K Q C E R F K Y G G C   L G N M N N F E T L   E E C K N I C E D G   P N G F Q V D N Y G T Q L N A V N N S L   T P Q S T K V P S L   F E F H G P S W C L   T P A D R G L C R A N E N R F Y Y N S V   I G K C R P F K Y S   G C G G N E N N F T   S K Q E C L R A C K K G F I Q R I S K G   G L I K           </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The TFPI gene encodes a Kunitz-type serine protease inhibitor crucial for regulating the tissue factor (TF)-dependent pathway in blood coagulation. This pathway is initiated by the formation of a factor VIIa-TF complex, activating additional proteases (factors IX and X) and culminating in fibrin clot formation. The TFPI protein acts as an autoregulatory loop inhibitor, targeting both activated factor X and VIIa-TF proteases. In animal models of hemophilia, inhibition of this protein has shown promise in restoring hemostasis. The gene produces multiple protein isoforms, each differing in inhibitory</p>
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activity, specificity, and cellular localization. Notably, TFPI exhibits broad expression across various tissues, including liver, placenta, and others.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA