

## TFPI Protein, Mouse (HEK293, C-His)

Cat. No.:	HY-P73425A
Synonyms:	Tissue factor pathway inhibitor; TFPI; EPI; LACI
Species:	Mouse
Source:	HEK293
Accession:	O54819 (L29-K289)
Gene ID:	21788
Molecular Weight:	Approximately 42 kDa

### PROPERTIES

AA Sequence	<pre> L S E E A D D T D S   E L G S M K P L H T   F C A M K A D D G P   C K A M I R S Y F F N M Y T H Q C E E F   I Y G G C E G N E N   R F D T L E E C K K   T C I P G Y E K T A V K A A S G A E R P   D F C F L E E D P G   L C R G Y M K R Y L   Y N N Q T K Q C E R F V Y G G C L G N R   N N F E T L D E C K   K I C E N P V H S P   S P V N E V Q M S D Y V T D G N T V T D   R S T V N N I V V P   Q S P K V P R R R D   Y R G R P W C L Q P A D S G L C K A S E   R R F Y Y N S A T G   K C H R F N Y T G C   G G N N N N F T T R R R C L R S C K T G   L I K N K S K G V V   K           </pre>
Biological Activity	Measured by its ability to inhibit the proliferation of A549 human non-small cell lung cancer cells. The ED <sub>50</sub> this effect is 36.62 ng/mL, corresponding to a specific activity is 3.731×10 <sup>4</sup> units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 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	TFPI protein serves as a potent inhibitor in the coagulation cascade by directly inhibiting factor X (Xa). In a Xa-dependent manner, it further inhibits the activity of VIIa/tissue factor, potentially through the formation of a quaternary complex
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involving Xa, TFPI, VIIa, and tissue factor. Beyond its role in antithrombotic action, TFPI exhibits the capability to associate with lipoproteins in plasma, suggesting its involvement in regulating hemostasis and clotting processes.

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

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