TFPI2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74527
Synonyms:	Tissue factor pathway inhibitor 2; TFPI-2;
Species:	Mouse
Source:	HEK293
Accession:	O35536 (L23-S230)
Gene ID:	21789
Molecular Weight:	35-50 kDa

PROPERTIES

AA Sequence	L T S V S A Q G N N L E I C L L P L D A G P C Q A L I P K F Y Y D R D Q Q K C R R F N Y G G C L G N A N N F H S R D L C Q Q T C G S I E K V P P V C R S E L K T Y P C D K P N I R F F F N L N T M T C E P L R P G L C S R T I N V F S E E A T C K G L C E P R K H I P S F C S S P K D E G L C S A N V T R F Y F N S R N K T C E T F T Y T G C G G N E N N F Y Y L D A C H R A C V K G W K K P K R W K I G D F L P R F W K H L S
Biological Activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2.The IC_{50} value is 1.68 nM, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 25 mM Tris, 150 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	TFPI2 (Tissue Factor Pathway Inhibitor 2) emerges as a key regulator in the intricate web of matrix remodeling orchestrated by plasmin. Its inhibitory prowess extends to trypsin, plasmin, and factor VIIa/tissue factor, with a weaker effect on factor Xa, while remaining inert to thrombin. Beyond its direct inhibitory actions, TFPI2 engages in complex interactions, forming a

molecular alliance with ABCB1 and PPP2R3C. This complex formation results in the dephosphorylation of ABCB1, highlighting TFPI2's involvement in dynamic cellular processes that go beyond its primary inhibitory functions.

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