

TFPI2 Protein, Mouse (HEK293, hFc)

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| Cat. No.: | HY-P74528 |
| Synonyms: | Tissue factor pathway inhibitor 2; TFPI-2; |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | O35536 (L23-S230) |
| Gene ID: | 21789 |
| Molecular Weight: | 55-70 kDa |

PROPERTIES

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| 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)-NH ₂ . The IC ₅₀ value is 2.585 nM, as measured under the described conditions. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, 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. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| 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

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| 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 |
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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.

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

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