

Tissue Factor Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71127
Synonyms:	Tissue factor; TF; Coagulation factor III;
Species:	Mouse
Source:	HEK293
Accession:	P20352 (A29-E251)
Gene ID:	14066
Molecular Weight:	35-42 kDa

PROPERTIES

AA Sequence	<pre> AG I P E K A F N L T W I S T D F K T I L E W Q P K P T N Y T Y T V Q I S D R S R N W K N K C F S T T D T E C D L T D E I V K D V T W A Y E A K V L S V P R R N S V H G D G D Q L V I H G E E P P F T N A P K F L P Y R D T N L G Q P V I Q Q F E Q D G R K L N V V V K D S L T L V R K N G T F L T L R Q V F G K D L G Y I I T Y R K G S S T G K K T N I T N T N E F S I D V E E G V S Y C F F V Q A M I F S R K T N Q N S P G S S T V C T E Q W K S F L G E </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, pH 7.5.
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. 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>Tissue Factor (TF) serves as a crucial initiator of blood coagulation through its formation of a complex with circulating factor VII or VIIa. The resulting [TF:VIIa] complex facilitates the specific limited proteolysis of factors IX or X, thereby playing a pivotal role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade. Notably, TF's interaction with HSPE is significant, with heparin acting as an inhibitor; this interaction promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII, underscoring TF's intricate involvement in the regulation of blood clotting processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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