

Tissue Factor Protein, Rat (HEK293, His)

Cat. No.:	HY-P73592
Synonyms:	CD142; Coagulation Factor III; F3; TF; TFA; Tissue Factor
Species:	Rat
Source:	HEK293
Accession:	Q66HI4 (M1-E252)
Gene ID:	25584
Molecular Weight:	47-52 kDa

PROPERTIES

AA Sequence	MA I P M R P R L L A A L A P T F L G F L L L Q V A A G A G T P P G 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 Y K C T G T T D T E C D L T D E I V K D V N W T Y E A R V L S V P W R N S T H G K E T L F G T H G E E P P F T N A R K F L P Y R D T K I G Q P V I Q K Y E Q D G T K L K V T V K D S F T L V R K N G T F L T L R Q V F G N D L G Y I L T Y R K D S S T G R K T N T T H T N E F L I D V E K G V S Y C F F V Q A V I F S R K T N H K S P E S I T K C T E Q W K S V L G E
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

Background	<p>Tissue Factor (TF) functions as a key initiator of blood coagulation, forming a complex with circulating factor VII or VIIa. This [TF:VIIa] complex is pivotal in activating factors IX or X through specific limited proteolysis. In normal hemostasis, TF plays a crucial role by initiating the cell-surface assembly and propagation of the coagulation protease cascade. Additionally, TF interacts with HSPE; however, this interaction is inhibited by heparin. Notably, this interaction promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII, emphasizing the multifaceted role of TF</p>
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in the intricate processes of blood clotting.

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

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