

Tissue Factor Protein, Rabbit (HEK293, His)

Cat. No.:	HY-P73594
Synonyms:	CD142; Coagulation Factor III; F3; TF; TFA; Tissue Factor
Species:	Rabbit
Source:	HEK293
Accession:	P24055/NP_001075760.1 (A33-M250)
Gene ID:	100009127
Molecular Weight:	Approximately 35-55 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> ADTTGRAYNL TWKSTNFKTI LEWEPKSIDH VYTVQISTR L ENWKS KCF LT AETECDLTDE VVKDVGQTYM ARVLSYPARN GNTTGFPEEP PFRNSPEFTP YLDTNLGQPT IQSFEQVGTK LNVTVQDART LVRRNGTFLS LRAVFGKDLN YTLYYWRASS TGKKTATTNT NEFLIDVDKG ENYCF SVQAV IPSRKRKQRS PESLTECTSR EQGRAREM </pre>
Biological Activity	Measured by its ability to activate Coagulation Factor VII in cleaving a fluorogenic peptide substrate Boc-VPR-AMC. The AC ₅₀ is 5.368 µg/mL, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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 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	Tissue Factor (TF) serves as the initiator of blood coagulation, creating a complex with circulating factor VII or VIIa. This [TF:VIIa] complex, through specific limited proteolysis, activates factors IX or X. In normal hemostasis, TF plays a pivotal role by instigating the assembly and propagation of the coagulation protease cascade on the cell surface. Furthermore, TF
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interacts with HSPE, and this interaction, hindered by heparin, facilitates the generation of activated factor X, ultimately contributing to the activation of coagulation in the presence of activated factor VII. This underscores the intricate involvement of TF in the regulatory processes of blood clotting.

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

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