Tissue Factor Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P78592
Synonyms:	Coagulation Factor III; Tissue Factor; TF; F3; CD142
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5VX02-1 (S33-E252)
Gene ID:	102131431
Molecular Weight:	approximately 34-50 kDa

PROPERTIES

AA Sequence	S G T T N T V A A Y N L T W K S T N F K T I L E W E P K P I N Q V Y T V Q I S T K S G D W K S K C F Y T A D T E C D L T D E I V K D V K Q T Y L A R V F S Y P A G H V E S T G S T E E P P Y E N S P E F T P Y L E T N L G Q P T I Q S F E Q V G T K V N V T V Q D E W T L V R R N D T F L S L R D V F G K D L I Y T L Y Y W K S S S S G K K T A K T N T N E F L I D V D K G E N Y C F S V Q A V I P S R R T A N R K S T D S P V E C M G H E K G E S R E
Biological Activity	Measured by its ability to activate Coagulation Factor VII in cleaving a fluorogenic peptide substrate Boc-VPR-AMC. The AC50 is 6.991 μg/mL, as measured under the described conditions, corresponding to a specific activity is 143.041 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μm filtered solution of 50 mM Tris, 150 mM NaCl, pH 7.5.
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. 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	F3 Protein, also known as tissue factor (TF), serves as the initiator of blood coagulation by forming a complex with circulating factor VII or VIIa. This complex, [TF:VIIa], triggers the activation of factors IX or X through specific limited proteolysis. In normal hemostasis, TF plays a crucial role in initiating the assembly and propagation of the coagulation

protease cascade on the cell surface. Furthermore, F3 Protein interacts with HSPE, and this interaction is hindered by heparin. The interaction promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII.

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

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