

Recombinant Protein Technical Manual Recombinant Mouse Tissue Factor/TF Protein (His Tag) RPES0538

## Product Data:

Product SKU: RPES0538

**Size:** 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P20352

Protein Information:	
Molecular Mass:	26.2 kDa
AP Molecular Mass:	35-42 kDa
Tag:	C-His
Bio-activity:	
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per $\mu g$ as determined by the LAL method.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20mM TrisHCl,150mM NaCl,0.05%Brij35,pH7.5.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Tissue factor; TF; Coagulation factor III;

## Sequence: Ala29-Glu251

## Background:

Tissue?Factor, also known as thromboplastin and CD142,?belongs to the tissue factor family which conteins 294 amino acid (aa). Mouse TF consists of a signal peptide (residues 1-28) and the mature chain (residues 29-294). It is a single-pass type I membrane protein that expressed in the liver oscillates in a circadian manner. Interacts with HSPE; the interaction, inhibited by heparin, promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII. Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited protolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.