



Recombinant Protein Technical Manual  
Recombinant Human Tissue Factor/CD142 Protein  
(His Tag)  
RPES0751

### Product Data:

**Product SKU:** RPES0751

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P13726

### Protein Information:

**Molecular Mass:** 25.8 kDa

**AP Molecular Mass:** 69 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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 PB, 150mM NaCl, pH 7.2.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Tissue Factor; TF; Coagulation Factor III; Thromboplastin; CD142; F3; TFA; coagulation factor 3

## Immunogen Information:

**Sequence:** Gly34-Glu251

## Background:

Tissue Factor (TF) is a single-pass type I membrane glycoprotein member of the tissue factor family. TF expression is highly dependent upon cell type. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. TF initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The complex activates factors IX or X by specific limited proteolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.