Recombinant Rat Tissue factor/TF Protein (His Tag)

Catalog Number: PDMR100023

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

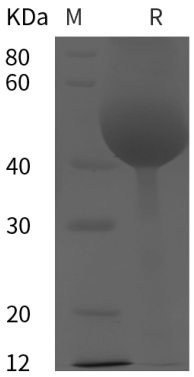
Description

Species	Rat
Source	Mammalian-derived Rat Tissue factor;TF protein Met1-Glu252, with an C-terminal His
Calculated MW	27.6 kDa
Observed MW	49 kDa
Accession	P42533
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, 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 in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat Tissue factor/TF proteins, 2 μg/lane of Recombinant Rat Tissue factor/TF proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 49 kDa.

Background

Coagulation Factor III/Tissue Factor (TF), also known as thromboplastin and CD142, is an integral membrane protein found in a variety of cell types. It functions as a protein cofactor/receptor of Coagulation Factor VII, which is synthesized in the liver and circulated in the plasma. Upon binding of TF, the inactive factor VII is rapidly converted into activated VIIa. The resulting 1:1 complex of VIIa and TF initiates the coagulation pathway and has also important coagulation-independent functions such as angiognesis. Synthesized as a 294 amino acid precursor, mouse TF consists of a signal peptide (residues 1 to 28) and the mature chain (residues 29 to 294). As a type I membrane protein, it contains a transmembrane region (residues 252 to 274) and a cytoplasmic tail (residues 275 to 294).

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