

Recombinant Human Coagulation factor III/Tissue factor/CD142 Protein

Catalog No.: RP00112 Recombinant

Swiss Prot

P13726

Purification

determined by SDS-

> 95 % as

37-45 kDa

PAGE

Calculated MW Observed MW

< 0.1 EU/ μ g of the protein by LAL

Sequence Information

Species Gene ID Human 2152

Tags C-His

Source HEK293 cells

25.55 kDa

method.

Endotoxin

Synonyms

CD142; TF; TFA;F3;TF;TFA

Product Information

Background

The protein is coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the highaffinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.

Basic Information

Description

Recombinant Human Coagulation factor III/Tissue factor/CD142 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly34-Glu251) of human Coagulation Factor III/Tissue Factor/CD142 (Accession #NP_001984.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Human CD142 at 1 μ g/mL (100 μ L/well) can bind Human Tissue Factor Rabbit mAb with a linear range of 0.98-61.71 ng/mL.|2.Measured by its ability to activate Coagulation Factor VII in cleaving a fluorogenic peptide substrate Boc-VPR-AMC. The AC50 is <24.0 μ g/mL.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

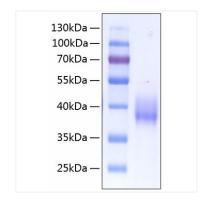
Formulation Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

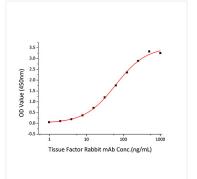
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

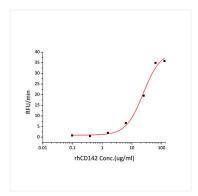
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Recombinant Human Coagulation factor III/Tissue factor/CD142 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human CD142 at 1µg/mL (100 µL/well) can bind Human Tissue Factor Rabbit mAb with a linear range of 0.98-61.71 ng/mL.



Recombinant Human Coagulation Factor III activate Coagulation Factor VII in cleaving a fluorogenic peptide substrate Boc-VPR-AMC. The AC50 is <24.0 μ g/mL.