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Recombinant Human Coagulation factor III/Tissue factor/CD142 Protein

Catalog No.: RP00112 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2152	P13726

Tags
C-His

Synonyms
CD142; TF; TFA;F3;TF;TFA

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
25.55 kDa	35-55 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

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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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 high-affinity 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.

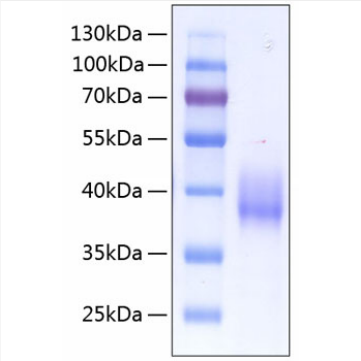
Bio-Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human CD142 at 1 μg/mL (100 μL/well) can bind Human Tissue Factor Rabbit mAb with a linear range of 0.98-61.71 ng/mL.|2.Measured by its ability to activate Coagulation Factor VII in cleaving a fluorogenic peptide substrate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

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

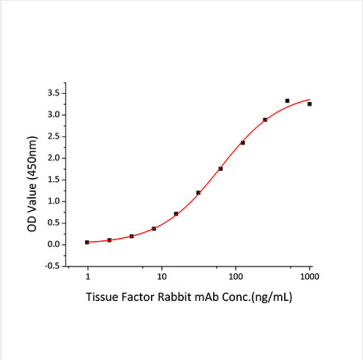
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

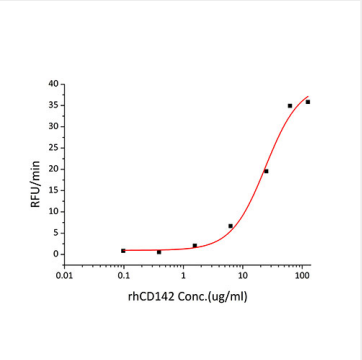
Validation Data



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 μg/mL.