Datasheet for ABIN7533975

Tissue factor Protein (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	Tissue factor (F3)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Tissue factor protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Coagulation factor III/CD142 Protein
Sequence:	GTTNTVAAYN LTWKSTNFKT ILEWEPKPVN QVYTVQISTK SGDWKSKCFY TTDTECDLTD EIVKDVKQTY LARVFSYPAG NVESTGSAGE PLYENSPEFT PYLETNLGQP TIQSFEQVGT KVNVTVEDER TLVRRNNTFL SLRDVFGKDL IYTLYYWKSS SSGKKTAKTN TNEFLIDVDK GENYCFSVQA VIPSRTVNRK STDSPVECMG QEKGEFRE
Specificity:	Gly34-Glu251
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	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

Product Details

	peptide substrate Boc-VPR-AMC. The AC50 is <24.0 µg/mL.

Target Details

Target:	Tissue factor (F3)
Alternative Name:	Coagulation factor III/CD142 (F3 Products)
Background:	Description: 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. Name: CD142, TF, TFA,F3,TF,TFA
Gene ID:	2152
UniProt:	P13726
Pathways:	Positive Regulation of Endopeptidase Activity, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex 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.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

Handling

Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.