

Product datasheet for **AR50507PU-N**

CD142 / Tissue factor (33-251, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CD142 / Tissue factor (33-251, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MSGTTNTVAA YNLTWKSTNF KTIWEWPKP VNQVYTVQIS TKSGDWKSKC FYTTDTECDL TDEIVKDVKQ TYLARVFSYP AGNVESTGSA GEPLYENSPE FTPYLETNLG QPTIQSFEQV GTKVNVTVED ERTLVRRNNT FLSLRDVFGK DLIYTLYYWK SSSSGKKTAK TNTNEFLIDV DKGGENYCFSV QAVIPSRTVN RKSTDSPVEC MGQEKGEFRE LEHHHHHH
Tag:	His-tag
Predicted MW:	25.9 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human F3 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001171567
Locus ID:	2152
UniProt ID:	P13726
Cytogenetics:	1p21.3
Synonyms:	CD142; TF; TFA



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Summary:

This gene encodes 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, for example, on monocytes. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. Platelets and monocytes have been shown to express this coagulation factor under procoagulatory and proinflammatory stimuli, and a major role in HIV-associated coagulopathy has been described. Platelet-dependent monocyte expression of coagulation factor III has been described to be associated with Coronavirus Disease 2019 (COVID-19) severity and mortality. 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.[provided by RefSeq, Aug 2020]

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Complement and coagulation cascades

Product images: