

Product datasheet for **TP303142M**

Tissue Factor (F3) (NM_001993) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human coagulation factor III (thromboplastin, tissue factor) (F3), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203142 protein sequence Red =Cloning site Green =Tags(s)
	<p>METPAWPRVPRPETAVARTLLLGWVFAQVAGSGTTNTVAAYNLTKSTNFKTILEWEPKPVNQVYTVQI STKSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVSTGSAGEPLYENSPEFTPYLETNL GQPTIQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYLYWKSSSSGKKTAKTNTNEFLID VDKGENYCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVILAILHKKRKA GVGQSWKENSPLNVS</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	29.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001984</u>
Locus ID:	2152



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UniProt ID: [P13726](#)

RefSeq Size: 2393

Cytogenetics: 1p21.3

RefSeq ORF: 885

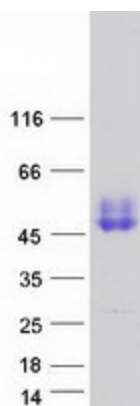
Synonyms: CD142; TF; TFA

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:



Coomassie blue staining of purified F3 protein (Cat# [TP303142]). The protein was produced from HEK293T cells transfected with F3 cDNA clone (Cat# [RC203142]) using MegaTran 2.0 (Cat# [TT210002]).