

## Product datasheet for PH303142

### Tissue Factor (F3) (NM\_001993) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	F3 MS Standard C13 and N15-labeled recombinant protein (NP_001984)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203142
Predicted MW:	33.1 kDa
Protein Sequence:	>RC203142 protein sequence Red=Cloning site Green=Tags(s)  METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQI STKSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNL GQPTIQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLID VDKGENYCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIIILAIISLHKCRKA VVGQSWKENSPLNVS  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001984</a>
RefSeq Size:	2393
RefSeq ORF:	885
Synonyms:	CD142; TF; TFA
Locus ID:	2152



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UniProt ID: [P13726](#)

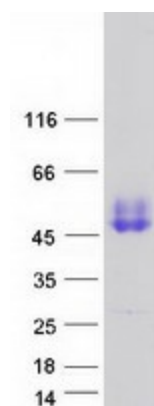
Cytogenetics: 1p21.3

**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]).