

Recombinant Full Length Human F3 Protein, C-Flag-tagged

Cat. No. F3-2109HFL Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Full Length Human F3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species Human

Source Mammalian Cells

Description

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.

Form 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

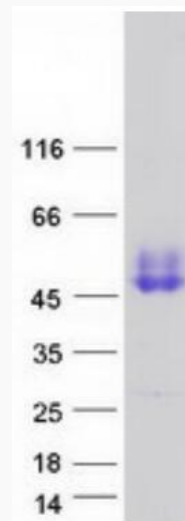
Molecular Mass	29.5 kDa
AA Sequence	METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTKSTNFKTILE WEPKPVNQVYTVQI STKSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPA GNVESTGSAGEPLYENSPEFTPYLETNL GQPTIQSFEQVGTKVNVTVEDERTLVRR NNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLID VDKGENYCFVSVQAVI PSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVILAILHLCRKA GVGQS WKENSPLNVS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Complement and coagulation cascades
Full Length	Full L.
GENE INFORMATION	
Gene Name	F3 coagulation factor III, tissue factor [Homo sapiens (human)]

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Official Symbol	F3
Synonyms	TF; TFA; CD142
Gene ID	2152
mRNA Refseq	NM_001993.5
Protein Refseq	NP_001984.1
MIM	134390
UniProt ID	P13726



Coomassie blue staining of purified F3 protein.

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