

Coagulation Factor III Recombinant Protein | F3 recombinant protein

Recombinant Human Coagulation Factor III

CATALOG #
AAA38428

HOST
E Coli

PRODUCT SYNONYMS

Coagulation Factor III; Recombinant Human Coagulation Factor III; F3 Human; Coagulation Factor III Human Recombinant; Tissue factor; Coagulation factor III; Thromboplastin; CD142; TF; F3; TFA; F3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Tissue factor protein is supplied in 22mM Tris.HCl pH8.0, 1mM EDTA and 50% glycerol. Sterile Filtered clear solution.
Concentration	0.13 mg/ml (varies by lot)
Sequence Length	238
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Please avoid freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for F3 recombinant protein	Description: Tissue factor Human Recombinant produced in E Coli is single, a non-glycosylated, Polypeptide chain containing 219 amino acids of the extracellular domain (33-251) having a molecular mass of 29.39 kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The Tissue factor is purified by proprietary chromatographic techniques. Introduction: Tissue factor is well-known as the main cellular initiator of blood coagulation. The Tissue factor gene encodes coagulation factor III which is a cell surface glycoprotein that enables cells to initiate the blood coagulation cascades, and functions as the high-affinity receptor for the coagulation factor VII. Following vessel injury, the Tissue Factor and Factor VIIa complex activates the coagulation protease cascade, which leads to fibrin deposition and activation of platelets. The ensuing complex presents a catalytic event, which is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Therefore, Tissue factor has a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade. Tissue Factor can also be stimulated by the inflammatory mediators interleukin 1 and TNF, as well as by endotoxin, to appear on monocytes and vascular endothelial cells as a component of cellular immune response. Tissue factor is the only one in the coagulation pathway for which a congenital deficiency has not been described. Certain levels of Tissue Factor are essential for the maintained viability and growth of endothelium and Tissue Factor-expressing tumor cells. Additionally, abnormal Tissue Factor expression inside the vasculature initiates life threatening thrombosis in various diseases, for example sepsis, atherosclerosis, and cancer. Alternative spliced Tissue Factor expression advances tumor growth, and is linked to increased tumor cell proliferation and angiogenesis in pancreatic cancer.
Product Categories/Family for F3 recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins ; Coagulation Factors
References	Title: Tissue factor-Akt signaling triggers microvessel formationPublication: DOI: 10.1111/j.1538-7836.2012.04848.x, 4 SEP 2012Link: https://onlinelibrary.wiley.com/doi/10.1111/j.1538-7836.2012.04848.x/full

NCBI AND UNIPROT INFORMATION

NCBI GI #	296010912
NCBI GeneID	2152
NCBI Accession #	NP_001171567.1
NCBI GenBank Nucleotide #	NM_001178096.1
UniProt Accession #	P13726; Q6FHG2; Q86WH4; D3DT47
Molecular Weight	27,145 Da
NCBI Official Full Name	tissue factor isoform 2
NCBI Official Synonym Full Names	coagulation factor III (thromboplastin, tissue factor)
NCBI Official Symbol	F3
NCBI Official Synonym Symbols	TF; TFA; CD142
NCBI Protein Information	tissue factor
UniProt Protein Name	Tissue factor
UniProt Gene Name	F3
UniProt Synonym Gene Names	TF
UniProt Entry Name	TF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/f3-recombinant-protein-e-coli/38428>