

Recombinant Human F3, His-tagged

Cat. No. F3-99H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human F3 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.
Species	Human
Source	E.coli
ProteinLength	33-251 a.a.
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. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. 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.
Molecular Mass	29.39 kDa
Physical Appearance	Sterile Filtered clear solution.

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Formulation	Tissue factor protein is supplied in 22mM Tris.HCl pH8.0, 1mM EDTA and 50% glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.
OfficialSymbol	F3
GENE INFORMATION	
Gene Name	F3 coagulation factor III (thromboplastin, tissue factor) [Homo sapiens]
Synonyms	CD142; TF; TFAD; TFA; Thromboplastin; CD142 antigen; Coagulation factor III; Tissue factor precursor; coagulation factor III (thromboplastin, tissue factor); tissue factor; TF_HUMAN; F3
Gene ID	2152
mRNA Refseq	NM_001178096
Protein Refseq	NP_001171567
MIM	134390
UniProt ID	P13726
Chromosome Location	1p22-p21
Pathway	Complement and Coagulation Cascades; Extrinsic Pathway; Formation of Fibrin Clot

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(Clotting Cascade); Hemostasis

Function

cell surface binding; phospholipid binding; protease binding; protein binding

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