

Active Recombinant Human F3 protein

Cat. No. F3-22H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human F3 was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	263 amino acids
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.
Form	20 mM Tris, 150 mM NaCl, pH 8.0, 10 mM CHAPS
Bio-activity	Fluorogenic assay
Molecular Mass	35000

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Purity	>95% by SDS-PAGE NOT tissue/cell culture grade. Not tested for endotoxin.
Stability	12 months
Storage	Store at -80 centigrade

GENE INFORMATION

Gene Name	F3 coagulation factor III (thromboplastin, tissue factor) [Homo sapiens]
Official Symbol	F3
Synonyms	F3; coagulation factor III (thromboplastin, tissue factor); tissue factor; CD142; TF; TFA; FLJ17960;
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, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Extrinsic Pathway, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem;

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Hemostasis, organism-specific biosystem;

Function

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

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