

Recombinant Human F3 Protein, C-His-tagged

Cat. No. F3-029H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human F3 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>Tissue Factor (TF)/CD142 (Coagulation factor III/Thromboplastin) is a type-I transmembrane glycoprotein that serves as the cell surface receptor and cofactor for blood coagulation factors VII and VIIa, and thus plays a central role in hemostasis and thrombosis. The TF:VIIa receptor-ligand complex is widely recognized as the initiator of the extrinsic blood coagulation protease cascade, which ultimately leads to the generation of fibrin and thrombin. A member of the type-II cytokine receptor superfamily, TF has also been shown to engage the PI3K and MAPK signaling cascades upon binding to factor VIIa in order to drive cellular responses such as cell migration, growth, and proliferation. Although the function of TF under physiologic conditions is to coordinate blood clotting in response to tissue damage, TF is implicated in pathologic conditions such as tumorigenesis. Indeed, TF is aberrantly expressed in colorectal cancer, breast cancer, pancreatic cancer, and glioblastoma multiforme. It has been shown to promote tumor angiogenesis, tumor growth, metastasis, and venous thrombosis. Given that TF overexpression is associated with numerous types of solid tumors, it has garnered much attention as a potential therapeutic target.</p>
Molecular Mass	~24 kDa

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AA Sequence	SGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQISTKSGDWKSKCFYTTDTEC DLTDEIVKDKVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPTIQ SFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTN TNEFLIDVDKGENYCFSVQAVIPSRVTNRKSTDSPVECMGQEKGEFRE
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	F3 coagulation factor III (thromboplastin, tissue factor) [Homo sapiens (human)]
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

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MIM	134390
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UniProt ID	P13726
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