

Product information



F3, 33-251aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1683

Full name: Tissue factor

NCBI Accession No.: NP_001984

Synonyms: CD142, TF, TFA

Description: Tissue factor, also known as F3 or CD142, 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. Recombinant human F3 protein, fused to His-tag at C-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT</p> <p>Molecular Weight: 25.9 kDa (228aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	<p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MSGTTNTVAA YNLTWKSTNF KTILEWEPKP VNQVYTVQIS TKSGDWKSKC FYTTDTECDL TDEIVKDVKQ TYLARVFSYP AGNVESTGSA GEPLYENSPE FTPYLETNLG QPTIQSFEQV GTKVNVTVED ERTLVRNNT FLSLRDVFGK DLIYTLYYWK SSSSGKKTAK TNTNEFLIDV DKGENYCFSV QAVIPSRVTN RKSTDSPVEC MGQEKGEFRE <u>LEHHHHHH</u></p>	

General references:

Bogdanov V., *et al.* (2003) *Nat. Med.* 9:458-462

Mackman N., *et al.* (1989) *Biochemistry.* 28:1755-1762

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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