Recombinant human Coagulation Factor III/Tissue Factor protein

Catalog Number: ATGP1683

PRODUCT INFORMATION

Expression system
E.coli

Domain
33-251aa

UniProt No.
P13726

NCBI Accession No.
NP_001984

Alternative Names
Tissue factor, CD142, TF, TFA

PRODUCT SPECIFICATION

Molecular Weight
25.9 kDa (228aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

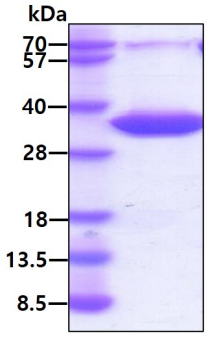
MSGTTNTVAA YNLTWKSTNF KTILEWEPKP VNQVYTVQIS TKSGDWKSKC FYTTDTECDL TDEIVKDVKQ TYLARVFSYP AGNVESTGSA GEPLYENSPE FTPYLETNLG QPTIQSFEQV GTKVNVTVED ERTLVRRNNT FLSLRDVFGK DLIYTLYYWK SSSSGKKTAK TNTNEFLIDV DKGENYCFSV QAVIPSRTVN RKSTDSPVEC MGQEKGEFRE <LEHHHHHH>

General References

Bogdanov V., et al. (2003) Nat. Med. 9:458-462
Mackman N., et al. (1989) Biochemistry. 28:1755-1762

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.