

Recombinant human TL1A/TNFSF15 protein

Catalog Number: ATGP4084

PRODUCT INFORMATION

Expression system

E.coli

Domain

72-251aa

UniProt No.

O95150

NCBI Accession No.

NP_005109.2

Alternative Names

TNF superfamily member 15, TNF ligand-related molecule 1, TL1, Vascular endothelial cell growth inhibitor, VEGI, TNF superfamily ligand TL1A, TL1A, Vascular endothelial growth inhibitor-192A, VEGI192A

PRODUCT SPECIFICATION

Molecular Weight

22.7 kDa (201aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 0.15M NaCl, 40% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its ability to induce apoptosis in TF-1 human erythroleukemic cells in the presence of cycloheximide. The ED50 range \leq 100ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

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.

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BACKGROUND

Description

Tumor necrosis factor ligand superfamily member 15, also known TNFSF15, belongs to the TNF superfamily. TNFSF15 is predominantly expressed in endothelial cells and its expression is inducible by TNF α and IL1 α . TNFSF15 is an angiogenesis inhibitor of the TNF family and functions in part by directly inhibiting endothelial cell proliferation. TNFSF15 may act as an autocrine factor to induce apoptosis in endothelial cells via activation of multiple signaling pathways, including stress protein kinases and certain caspases. Recombinant human TNFSF15 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH M>LKGQEFAPS HQQVYAPLRA DGDKPRAHLT VVRQTPTQHF KNQFPALHWE
HELGLAFTKN RMNYTNKFLI IPESGDYFIY SQVTFRGMTS ECSEIRQAGR PNKPDSTVV ITKVTDSTPE PTQLLMGTKS
VCEVGSNWFQ PIYLGAMFSL QEGDKLMVNV SDSLVDYTK EDKTFFGAFL L

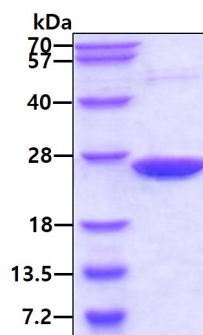
General References

Migone T S., et al. (2002) *Immunity*. 16:479.

Zhai Y., et al. (1999) *FASEB J.*13:181-189.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

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Human TNFSF15 induces apoptosis in TF-1 human erythroleukemic cells in the presence of cycloheximide. The ED50 range ≤ 100 ng/ml.

