

TNFSF15/TL1A Recombinant Protein | TNFSF15 recombinant protein

Recombinant Mouse TNFSF15/TL1A Protein

CATALOG #
AAA283378

HOST
E coli

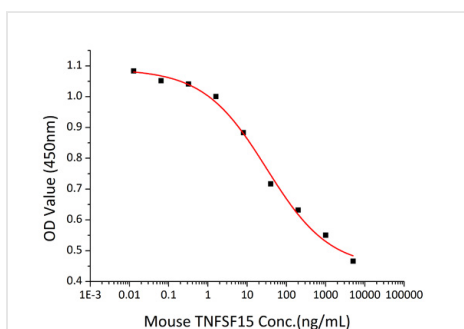
PRODUCT SYNONYMS

TNFSF15/TL1A; Recombinant Mouse TNFSF15/TL1A Protein; Tnfsf15; TL1; Vegj; Tumor necrosis factor ligand superfamily member 15; TNF ligand-related molecule 1; Vascular endothelial cell growth inhibitor; TNFSF15 recombinant protein

PRODUCT SPECIFICATIONS

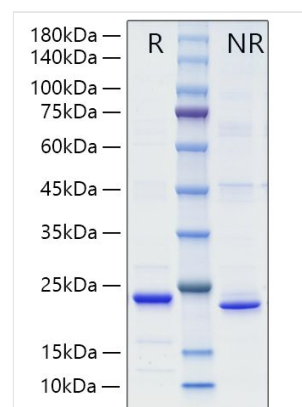
Host	E coli
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from 0.22 um filtered solution in 20mM PB, 300mM NaCl (pH7.0). Normally 8% trehalose is added as protectant before lyophilization.
Sequence	ITEERSESPSP QQVYSPPRGK PRAHLTIKKQ TPAPHLKNQL SALHWEHDLG MAFTKNGMKY INKSLVIPES GDYFIYSQIT FRGTTSVCGD ISRGRRPNKP DSITVVITKV ADSYPEPARL LTGSKSVCEI SNNWFQSLYL GAMFSLEEGD RLMVNVSDIS LVDYTKEDKT FFGAFL
Species	Mouse
Endotoxin	<1EU/ug of the protein by LAL method
Bio-Activity	Measured by its ability to induce apoptosis of TF?1 human erythroleukemic cells. The ED ₅₀ for this effect is 15.61-62.44ng/mL, corresponding to a specific activity of 1.60×10 ⁴ ~6.41×10 ⁴ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Mouse TNFSF15/TL1A Protein induce apoptosis of TF?1 human erythroleukemic cells. The ED₅₀ for this effect is 15.61-62.44 ng/mL, corresponding to a specific activity of 1.60×10⁴~6.41×10⁴ units/mg.



SDS-PAGE

Recombinant Mouse TNFSF15/TL1A Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions ?showing single bands at 20-25 kDa and 20-25 kDa, respectively.

ADDITIONAL INFORMATION

Related Product Information for TNFSF15 recombinant protein	TL1A is a type II transmembrane protein belonging to the TNF superfamily and has been designated TNF superfamily member 15 (TNFSF15). Mouse TL1A is a 252 amino acid residues (aa) protein consisting of a 35 aa N-terminal cytoplasmic domain, a 24 aa transmembrane region and 193 aa C-terminal extracellular domain. TL1A is expressed predominantly in endothelial cells and its expression is stimulated by TNF- α and IL-1 α . Non-endothelial cells of the gut mucosa, including lamina propria lymphocytes and tissue macrophages, also express TL1A and at higher levels in chronic inflammatory bowel disorders. TL1A binds with high affinity to death receptor 3 (DR3), which is now designated TNF receptor superfamily member 25 (TNFRSF25). DR3 was formerly designated TNFRSF12 when it was thought to be the receptor for TWEAK/TNFSF12. Depending on the cell type, DR3-TL1A interactions have different effects. Ligation of DR3 on activated T cells by TL1A provides a costimulatory signal to increase IL-2 responsiveness and the secretion of proinflammatory cytokines. The promotion of survival of activated T cells by TL1A results from the activation of the transcription factor NF- κ B. In a tumor erythroleukemic cell line, TF-1, DR3-TL1A signaling increases production of the NF- κ B-dependent antiapoptotic protein c-IAP2, promoting survival in these cells. In HUVEC cells, which express both DR3 and TL1A, ligation of DR3 by TL1A regulates cell apoptosis. These effects of TL1A are blocked by the secreted, soluble decoy receptor 3 (DcR3), also known as TR6 and TNFRSF6B, which compete with DR3 for binding to TL1A. Consistent with the observed in vitro activities, TL1A promotes ex vivo splenocyte expansion and enhances in vivo graft-versus-host-response. The level of TL1A in cells of gut mucosa, in patients with bowel inflammatory disorders, correlates with the severity of inflammation, and TL1A may play a role in a Th1-mediate pathological conditions such as Crohn's disease.
Product Categories/Family for TNFSF15 recombinant protein	Cytokines & Cytokine receptors; Cell Culture related; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	238776819
NCBI GeneID	326623
NCBI Accession #	NP_796345.3
NCBI GenBank Nucleotide #	NM_177371.3
UniProt Accession #	Q5UBV8; Q8K3Y8
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 15
UniProt Gene Name	Tnfsf15
UniProt Synonym Gene Names	TL1; Vegi
UniProt Entry Name	TNF15_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tnfsf15-recombinant-protein-e-coli/283378>