

TRAIL/TNFSF10 Recombinant Protein | TNFSF10 recombinant protein

TRAIL/TNFSF10 Protein, Human, Recombinant

CATALOG #
AAA257880

HOST
E Coli

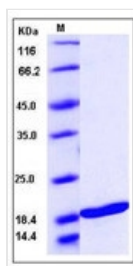
PRODUCT SYNONYMS

TRAIL/TNFSF10; TRAIL/TNFSF10 Protein; Human; Recombinant; Human TNFSF10/TRAIL/APO-2L/CD253 Protein; Apo-2L Protein; APO2L Protein; CD253 Protein; TL2 Protein; TRAIL Protein; tumor necrosis factor (ligand) superfamily; member 10; TNFSF10 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	≥95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50 mM Tris, 300 M NaCl, pH7.2. 5% trehalose, 5% mannitol and 0.01% Tween80
Sequence	Val114-Gly 281
Source	Human
Predicted N Terminal	Met
Protein Construction	A DNA sequence encoding the human TNFSF10 (NP_003801.1)(Val 114-Gly 281) with an initial Met was expressed and purified.
Reconstitution	Reconstituted with sterile deionized water to 0.25 mg/ml
Molecular Mass	The recombinant human TNSF10 consists of 169 amino acids and has a calculated molecular mass of 19.6 kDa. It migrates as an approximately 19 kDa band in SDS-PAGE under reducing conditions
Bio Activity	Loaded Recombinant Human DR5/TRAIL R2 Protein, hFc Tag on AHC Biosensor, can bind Recombinant Human TRAIL/TNFSF10 Protein with an affinity constant of 0.253 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TNFSF10 recombinant protein	Background: Tumor necrosis factor ligand superfamily member 10 (TNFSF10), also known as TNF-related apoptosis-inducing ligand (TRAIL), Apo-2 ligand, and CD253, is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. TNFSF10/Apo-2L/CD253 functions as a ligand that induces the process of cell death called apoptosis. TNFSF10/TRAIL shows homology to other members of the tumor necrosis factor superfamily. As one member of the cluster of differentiation system, TNFSF10/CD253 is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion TNFSF10/Apo-2L/CD253/TRAIL binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of TNFSF10/TRAIL may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for TNFSF10 recombinant protein	Cancer Drug Targets; Death Receptor Signaling
References	Song C, et al. (2005) TRAIL (CD253), a new member of the TNF superfamily. J Biol Regul Homeost Agents. 19(1-2): 73-7. Kuribayashi K, et al. (2008) TNFSF10 (TRAIL), a p53 target gene that mediates p53-dependent cell death. Cancer Biol Ther. 7(12): 2034-8. Wiley SR, et al. (1995) Identification and characterization of a new member of the TNF family that induces apoptosis. Immunity. 3(6): 673-82.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507593
NCBI GeneID	8743
NCBI Accession #	NP_003801.1
NCBI GenBank Nucleotide #	NM_003810.3
UniProt Accession #	P50591; A1Y9B3
Molecular Weight	Predicted Molecular Mass: 19.63 kDa
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 10 isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 10
NCBI Official Symbol	TNFSF10
NCBI Official Synonym Symbols	TL2; APO2L; CD253; TRAIL; Apo-2L
NCBI Protein Information	tumor necrosis factor ligand superfamily member 10; Apo-2 ligand; TNF-related apoptosis inducing ligand TRAIL; tumor necrosis factor (ligand) family, member 10; chemokine tumor necrosis factor ligand superfamily member 10; tumor necrosis factor apoptosis-
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 10
UniProt Gene Name	TNFSF10
UniProt Synonym Gene Names	APO2L; TRAIL; Apo-2L
UniProt Entry Name	TNF10_HUMAN

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.

