

Recombinant Human TNFSF10 Protein (Thr95-Gly281), His tagged

Cat. No. TNFSF10-2877H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TRAIL (Thr95-Gly281) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr95-Gly281
Description	Tumor necrosis factor ligand superfamily member 1 (TNFSF1), 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. TNFSF1/Apo-2L/CD253 functions as a ligand that induces the process of cell death called apoptosis. TNFSF1/TRAIL shows homology to other members of the tumor necrosis factor superfamily. As one member of the cluster of differentiation system, TNFSF1/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 32 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 TNFSF1/Apo-2L/CD253/TRAIL binds to several members of TNF receptor superfamily including

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TNFRSF1A/TRAILR1, TNFRSF1B/TRAILR2, TNFRSF1C/TRAILR3, TNFRSF1D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of TNFSF1/TRAIL may be modulated by binding to the decoy receptors TNFRSF1C/TRAILR3, TNFRSF1D/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.

Molecular Mass	22.19 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	TNFSF10 tumor necrosis factor (ligand) superfamily, member 10 [Homo sapiens (human)]
Official Symbol	TNFSF10

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Synonyms	TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; tumor necrosis factor ligand superfamily member 10; Apo 2L; CD253; TL2; TRAIL; 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-inducing ligand splice variant delta; APO2L; Apo-2L;
Gene ID	8743
mRNA Refseq	NM_001190942
Protein Refseq	NP_001177871
MIM	603598
UniProt ID	P50591

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