

Active Recombinant Human Tumor Necrosis Factor (Ligand) Superfamily, Member 10

Cat. No. TNFSF10-4752H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human soluble Trail also called TNF-related apoptosis-inducing Ligand, TNFSF10, Apo2 Ligand AND TL2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 168 amino acids and having a molecular mass of 19.6 kDa.
Species	Human
Source	E.coli
Description	In the field of cell biology, TNF-related apoptosis-inducing ligand (TRAIL), is a protein functioning as a ligand that induces the process of cell death called apoptosis. TRAIL has also been designated CD253 (cluster of differentiation 253).
Form	Lyophilized from a concentrated solution (1mg/ml) contains 150 mM NaCl, and 50mM sodium phosphate, pH 7.4.
Purity	Purity Greater than 95% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Recombinant Human TRAIL is fully biologically active when compared to standard. The activity is determined by the ability to induce apoptotic cell death in TRAIL-sensitive U343MG cells, ED50 for this effect is 1-3 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.

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Solubility	Lyophilized rHuTRAIL although stable at room temperature for 3 weeks, should be stored desiccated below -18μ. Upon reconstitution rHuTRAIL should be stored at 4μ between 2-7 days and for future use below -18μ. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles
Purity Greater than 95% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name	TNFSF10 tumor necrosis factor (ligand) superfamily, member 10 [Homo sapiens]
Official Symbol	TNFSF10
Synonyms	TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; TRAIL; Apo-2L;

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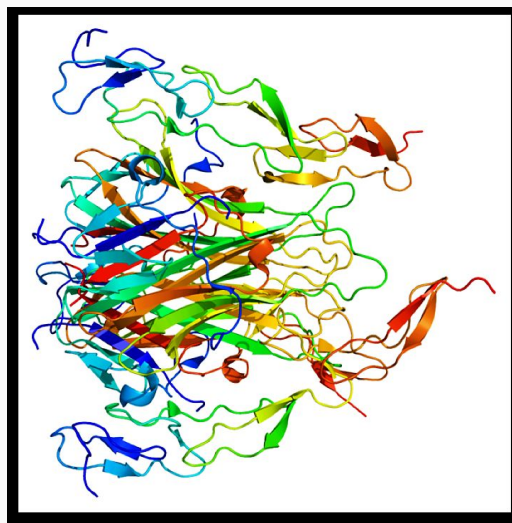
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TL2; CD253; Tumor necrosis factor ligand superfamily member 10; TNF-related apoptosis-inducing ligand; Protein TRAIL; Apo-2 ligand; APO2L; TNF-related apoptosis inducing ligand TRAIL; tumor necrosis factor (ligand) family, member 10; tumor necrosis factor apoptosis-inducing ligand splice variant delta; CD253 antigen; tumor necrosis factor apoptosis-inducing ligand splice variant delta

Gene ID	8743
mRNA Refseq	NM_003810
Protein Refseq	NP_003801
MIM	603598
UniProt ID	P50591
Chromosome Location	3q26
Pathway	Apoptosis; Cytokine-cytokine receptor interaction; Natural killer cell mediated cytotoxicity
Function	cytokine activity; metal ion binding; tumor necrosis factor receptor binding; zinc ion binding

PDBrendering based
on 1d0g.



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