

# Recombinant Human TNFRSF10A

**Cat. No.** TNFRSF10A-112H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>    | Human sTRAIL Receptor-1, also known as DR4 (Death Receptor-4), is a member of the TNF receptor family. This Human sTRAIL Receptor-1 is a 22.7 kDa protein containing 215 amino acid residues comprising the extracellular domain of TRAIL Receptor-1. It was produced in <i>E.coli</i> .                                                                         |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>         | CD4 is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. It was discovered in the late 1970s and was originally known as leu-3 and T4 (after the OKT4 monoclonal antibody that reacted with it) before being named CD4 in 1984. In humans, the CD4 protein is encoded by the CD4 gene. |
| <b>Amino Acid Sequence</b> | MSGTGAAAAT PSKVGWSSAG RIEPRGGGRG ALPTSMGQHG PSARARAGRA<br>PGPRPAREAS PRLRVHKTFC FVVVGVLQV VPSSAATIKL HDQSIGTQQW<br>EHSPLGELCP PGSHRSERPG ACNRCTEGVG YTNASQQLFA CLPCTACKSD<br>EEERSPCTTT RNTACQCKPG TFRNDNSAEM CRKCSTGCPR GMVKVKDCTP<br>WSDIECVHKE SGNGHN.                                                                                                        |
| <b>Note</b>                | If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial.                                                                                       |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | Ideally, maintain stock >10ug/ml.                                                                                                                                                                                                                                                                                           |
| <b>Supplied</b>            | Lyophilized protein.                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>              | >95% by SDS-Page analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug).                                                                                                                                                                                                                                              |
| <b>Reconstitution</b>      | The lyophilized protein soluble in water and most aqueous buffers. The lyophilized powder should first be quick spun in vial, then reconstituted in water to a concentration of 0.1-1.0mg/ml. Allow to set at least 30 minutes at 4°C. If desired, can centrifuge for 1 minute at 1000 rpm to concentrate material in vial. |
| <b>Biological Activity</b> | Determined by its inhibitory effect of IL-8 production in human PBMC by human sTRAIL/Apo2L. 95% inhibition (100 ng/ml of s TRAIL/Apo2L) was reached using a concentration of 100 ng/ml of sTRAIL Receptor-1.                                                                                                                |
| <b>Storage</b>             | The lyophilized powder, though stable at room temperature for a few weeks, is best stored dessicated at -20°C. Reconstituted sTrail Receptor-1 should be stored in working aliquots at -20°C. Avoid Frequent Freeze-THAW Cycles.                                                                                            |

## GENE INFORMATION

|                    |                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>   | TNFRSF10A tumor necrosis factor receptor superfamily, member 10a [ Homo sapiens ]                                                                                                                                                         |
| <b>Synonyms</b>    | TNFRSF10A; tumor necrosis factor receptor superfamily, member 10a; DR4; APO2; CD261; MGC9365; TRAILR1; TRAILR-1; death receptor 4; cytotoxic TRAIL receptor; TNF-related apoptosis inducing ligand receptor 1; TRAIL receptor 1; TRAIL-R1 |
| <b>Gene ID</b>     | 8797                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b> | NM_003844                                                                                                                                                                                                                                 |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_003835                                                                                                           |
| <b>MIM</b>                 | 603611                                                                                                              |
| <b>UniProt ID</b>          | O00220                                                                                                              |
| <b>Chromosome Location</b> | 8p21                                                                                                                |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction; Natural killer cell mediated cytotoxicity; Apoptosis                        |
| <b>Function</b>            | TRAIL binding; caspase activator activity; death receptor activity; receptor activity; transcription factor binding |

**Crystallographic structure of CD4.**

