

Recombinant Human TNFRSF10A

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

SPECIFICATION

Product Overview	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> .
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MSGTGAAAAT PSKVGWSSAG RIEPRGGGGRG ALPTSMGQHG PSARARAGRA PGPRPAREAS PRLRVHKTFC FVVVGVLQV VPSSAATIKL HDQSIGTQQW EHSPLGELCP PGSHRSERPG ACNRCTEGVG YTNASQQLFA CLPCTACKSD EEERSPCTTT RNTACQCKPG TFRNDNSAEM CRKCSTGCPR GMVKVKDCTP WSDIECVHKE SGNGHN.
Note	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.
Supplied	Lyophilized protein.
Purity	>95% by SDS-Page analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug).
Reconstitution	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.
Biological Activity	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.
Storage	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

Gene Name	TNFRSF10A tumor necrosis factor receptor superfamily, member 10a [Homo sapiens]
Synonyms	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
Gene ID	8797
mRNA Refseq	NM_003844

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

Crystallographic structure of CD4.

