



Recombinant Human TRAIL R-1 (DR4), soluble

20161123BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	S01-035S
Size:	10 µg
Lot. No.:	According to product label

Sequence

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MSGTGAAAAT PSKVMGSSAG RIEPRGGGRG ALPTSMGQHG
PSARARAGRA PGPRPAREAS PRLRVHKTFK FVVVGVLLQV
VPSSAATIKL HDQSIGTQQW EHSPLGELCP PGSHRSERPG
ACNRCTEGVG YTNASQQLFA CLPCTACKSD EEERSPCTTT
RNTACQCKPG TFRNDNSAEM CRKCSTGCPR GMVKVKDCTP
WSDIECVHKE SGNHGN

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Database References

Protein RefSeq:	NP_003835.3
Uniprot ID:	O00220
mRNA RefSeq:	NM_003844.3

Scientific Background

Gene-ID (NCBI):	8797
Synonyms:	TNFRSF10A; DR4; APO2; CD261; TRAILR1; TRAILR-1

TRAIL Receptor-1/DR4 and TRAIL Receptor-2/DR5 belong to the TNFR superfamily of transmembrane proteins and contain a cytoplasmic "death domain," which can activate the cell's apoptotic machinery. These receptors are activated by binding to either membrane anchored or soluble TRAIL/Apo2L. Recombinant human soluble TRAIL Receptor-1/DR4 is a 22.7 kDa protein (215 amino acid residues) consisting of the TNFR homologous, cysteine rich portion of the extracellular domain.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	215
MW:	22.7 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Measured by its ability to inhibit apoptosis in LN-18 cells. The expected ED₅₀ for this effect is 0.4 -0.5 µg/ml.