ReliaTech GmbH

Specification/Data Sheet

Recombinant Mouse TRAIL

20150227BB

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Cat.-no.:	**M10-128**
Size:	50 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	*22035*
Synonyms:	Tnfsf10; TL2; Ly81; Trail; APO-2L; AI448571; A330042I21Rik

TRAIL is a cytotoxic protein, which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL induced apoptosis is achieved through binding to two death-signaling receptors, DR4 and DR5. These receptors belong to the TNFR superfamily of transmembrane proteins and contain a cytoplasmic “death domain”, which activates the cell’s apoptotic machinery. Recombinant murine TRAIL is a 174 amino acid polypeptide (20.0 kDa), consisting of the TNF homologous portion of the extracellular domain of the full length TRAIL protein.

Sequence

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MRGGRPQKVA AHITGITRRS NSALIPISKD GKTLGQKIES
WESSRKGHSF LNHVLFRNGE LVIEQEGLYY IYSQTYFRFQ
EAEDASKMVS KDKVRTKQLV QYIYKYTSYP DPIVLMKSAR
NSCWSRDAEY GLYSIYQGGL FELKKNDRIF VSVTNEHLMD
LDQEASFFGA FLIN
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Database References

Protein RefSeq:	NP_033451.1
Uniprot ID:	P50592
mRNA RefSeq:	NM_009425

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):	174
MW:	20 kDa

Biological Activity: Assay#1: Determined by the dose-dependent stimulation of MIP-2 production by mouse spleen cells using a concentration range of 10-100 ng/ml. Assay#2: Measured by its ability to induce apoptosis in LN-18 cells (human glioblastoma cells). The expected ED50

AVOID REPEATED FREEZE AND THAW CYCLES!

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