

# TRAIL, murine recombinant

<b>CATALOG #:</b>	7205-10	10 µg
	7205-50	50 µg
<b>ALTERNATE NAMES:</b>	TNF-related apoptosis-inducing Ligand, TNFSF10, Apo2 Ligand, TL2	
<b>SOURCE:</b>	E coli	
<b>PURITY:</b>	≥ 95% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	20.0 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.0	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

**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.

**DESCRIPTION:**

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.

**AMINO ACID SEQUENCE:**

MRGGRPQKVA AHITGITRRS NSALIPISKD GKTLGQKIES WESSRKGHSF  
LNHVLFRNGE LVIEQEGLYY IYSQTYFRFQ EAEDASKMVS KDKVRTKQLV  
QYIYKYTSYP DPVLMKSAR NSCWSRDAEY GLYSIQGGL FELKKNDRI  
VSVTNEHLMD LDQEASFFGA FLIN

**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 ED<sub>50</sub> for this effect is 40.0-60.0 ng/ml.

**RELATED PRODUCTS:**

- sTRAIL Receptor-1/DR4, human recombinant (Cat # 7206-10, -50)
- TRAIL/Apo2L, human recombinant (Cat # 4354-10, -50, -1000)
- TRAIL Antibody (Cat # 3045-100)
- TRAIL Antibody (Cat # 5354-100)
- DR4 Antibody (Cat # 3061A-100)
- DR4 Antibody (Cat # 3061R-100)
- DR5 Antibody (Cat # 3062-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**