

Active Recombinant Mouse Tnfsf10, His-tagged

Cat. No. Tnfsf10-504M **Lot. No.** (See product label)

SPECIFICATION

Product Overview The extracellular domain of mouse TRAIL (aa 99-291) is fused at the N-terminus to a His-tag and a linker peptide. The active multimeric conformation is stabilized by an inserted mutation allowing an additional CC-bridge.

Species Mouse

Source E.coli

ProteinLength 99-291 a.a.

Description TNF-related apoptosis-inducing ligand (TRAIL; Apo2L;CD253; TNFSF10) is a type II transmembrane protein of about 34kDa. Like most members of the tumor necrosis factor (TNF) superfamily of cytokines TRAIL can be cleaved at the cell surface by metalloproteases to form a soluble molecule. Active TRAIL forms trimers and specifically binds to five distinct receptors: TRAIL-R1 (DR4; Apo2;CD261; TNFRSF10A), TRAIL-R2 (DR5; KILLER; TRICK2A;TRICK2B; CD262; TNFRSF10B), TRAIL-R3 (DcR1;LIT; TRID; CD263; TNFRSF10C), TRAIL-R4 (DcR2; TRUNDD; CD264; TNFRSF10D), and osteoprotegerin (OPG; OCIF; TNFRSF11B). Trimerized TRAIL triggers apoptosis upon ligation of cell surface TRAIL-R1 and/or TRAIL-R2 by inducing the formation of the so-called multiprotein death-inducing signaling complex (DISC).

Form Liquid. In 20mM HEPES, pH 7.4, 300mM NaCl, 0.01% Tween 20, 1% sucrose, 1mM DTT.

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Bio-activity	Induces apoptosis at concentrations of >10ng/ml as tested on human tumor cells. This effect can be efficiently blocked by recombinant mouse TRAIL receptors. This protein does not require a cross-linker (enhancer) for its potent biological activity.
Molecular Mass	~24kDa
Purity	Affinity purified. Sterile filtered.
Stability	Once thawed it is recommended to prepare appropriate aliquots and to store them at -80°C.
Storage	Short Term Storage: -20°C; Long Term Storage: -80°C. Avoid freeze/thaw cycles.
Concentration	0.5mg/ml

GENE INFORMATION

Gene Name	Tnfsf10 tumor necrosis factor (ligand) superfamily, member 10 [<i>Mus musculus</i>]
Official Symbol	Tnfsf10
Synonyms	TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; tumor necrosis factor ligand superfamily member 10; TRAIL/APO2L; TNF-related apoptosis inducing ligand; TNF-related apoptosis-inducing ligand; TL2; Ly81; Trail; APO-2L; AI448571; A330042I21Rik;
Gene ID	22035
mRNA Refseq	NM_009425
Protein Refseq	NP_033451

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Pathway

Activation of Pro-Caspase 8, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis signaling pathway, organism-specific biosystem; Caspase-8 is formed from procaspase-8, organism-specific biosystem;

Function

cytokine activity; tumor necrosis factor receptor binding;

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