

Recombinant Mouse Tnfsf10 protein

Cat. No. Tnfsf10-1509M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnfsf10 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	175
Description	<p>The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p>
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4, with 3 mM DTT.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a

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cytotoxicity assay using murine L929 cells is less than 0.5 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg in the presence of actinomycin D.

Molecular Mass

Approximately 20.2 kDa, a single non-glycosylated polypeptide chain containing 175 amino acids.

AA Sequence

MPRGGRPQKVAAHITGITRRSNSALIPISKDGKTLGQKIESWESSRKGHSFLNHVLF
 NGELVIEQEGLYIYSQTYFRFQEAEDASKMVSKDKVVRTKQLVQYIYKYTSYPDP
 MKSARNSCWSRDAEYGLYSIQGGLFELKKNDRIFVSVTNEHLMDLDQEASFFGAF
 LIN

Endotoxin

Less than 0.1 EU/g of rMuTRAIL/TNFSF10 as determined by LAL method.

Purity

>95% by SDS-PAGE and HPLC analysis.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name


Tnfsf10

Official Symbol

Tnfsf10

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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
UniProt ID	P50592

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