

Active Recombinant Mouse Tnfsf9, His-tagged

Cat. No. Tnfsf9-132M Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain (Arg 104-Glu 309) of mouse TNFSF9 precursor was expressed with a N-terminal polyhistidine tag.
Species	Mouse
Source	Human Cells
ProteinLength	104-309 a.a.
Description	4-1BBL is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. It is shown to be a type II surface glycoprotein belonging to the TNF superfamily. Expression of 4-1BBL is restricted to APCs, such as dendritic cells, macrophages, and activated B cells. Members of the TNF-TNF receptor superfamily have been shown to play critical roles in regulating cellular activation, differentiation and apoptosis. Several studies have reported that 4-1BBL/4-1BB interaction provided a co-stimulatory signal to T cells, and increased T cell proliferation and cytokines production. In addition, 4-1BBL is involved in cancers, infectious diseases and autoimmune diseases.
Predicted N Terminal	His
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	Measured by its binding ability in a functional ELISA . Immobilized recombinant mouse 4-1BB Ligand at 20 µg/ml (100ul/well) can bind human 4-1BB with a linear

 Tel: 1-631-559-9269 1-516-512-3133

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range of 15.6-500 ng/ml .

Molecular Mass

The secreted recombinant mouse TNFSF9 consists of 222 amino acids and has a calculated molecular mass of 25 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 40-45 kDa protein in SDS-PAGE under reducing conditions.

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Purity

> 97 % as determined by SDS-PAGE

Stability

Samples are stable for up to twelve months from date of receipt at -70?

Storage

Store it under sterile conditions at -20? to -80?. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name

Tnfsf9 tumor necrosis factor (ligand) superfamily, member 9 [Mus musculus (house mouse)]

Official Symbol

Tnfsf9

Synonyms

Tnfsf9; tumor necrosis factor (ligand) superfamily, member 9; Ly63l; 4-1BBL; Cd137l; 4-1BB-L; AI848817; tumor necrosis factor ligand superfamily member 9; 4-1BB ligand

Gene ID

21950

mRNA Refseq

NM_009404

Protein Refseq

NP_033430

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UniProt ID	P41274
Chromosome Location	17 D; 17
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity; receptor binding; tumor necrosis factor receptor binding

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