

Active Recombinant Mouse Tnfsf9 Protein (Arg104-Glu309), C-His tagged, Animal-free, Carrier-free

Cat. No. Tnfsf9-88M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnfsf9 Protein (Arg104-Glu309) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Arg104-Glu309
Description	4-1BB ligand (4-1BBL) is a type II transmembrane protein that is part of the tumor necrosis factor (TNF) ligand family. As an inducible co-stimulatory molecule, it presents on several antigen presenting cell (APC) types, including B cells, macrophages and DCs. The interactions between 4-1BB and 4-1BBL trigger pleiotropic effects on the immune response including antigen presenting process, proliferation of CD4 and CD8 positive T-cells, as well as cytokine secretion from T-cells through NFκB, c-Jun, and p38 downstream signal pathways activation. Therefore, 4-1BB and 4-1BBL are recently used for the immunotherapy of cancer.
Form	Lyophilized
Bio-activity	Measure by its ability to induce IL-2 secretion in mouse T cells in the presence of the anti-CD3 antibody. The ED50 for this effect is < 0.05 µg/mL.
Molecular Mass	The protein has a calculated MW of 23.9 kDa.

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	The protein migrates as 24 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

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

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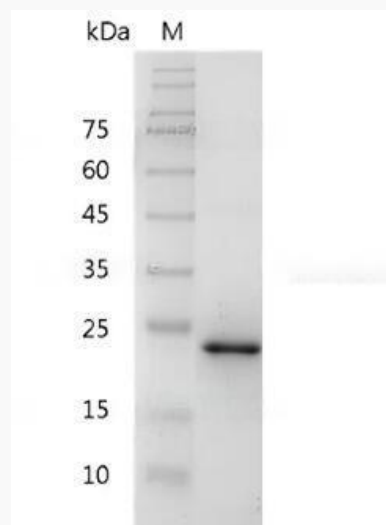
Gene ID 21950

mRNA Refseq NM_009404

Protein Refseq NP_033430

UniProt ID P41274

**SDS-PAGE analysis
of recombinant
mouse 4-1BBL.**



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