

Mouse 4-1BBL / CD137L / TNFSF9 Protein (His Tag)

Catalog Number: 50067-M07H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

4-1BB-L; 4-1BBL; AI848817; Cd137l; Ly63l

Protein Construction:

A DNA sequence encoding the extracellular domain (Arg 104-Glu 309) of mouse TNFSF9 (NP_033430.1) precursor was expressed with a N-terminal polyhistidine tag.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio Activity:

1. 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 range of 15.6-500 ng/ml
2. Loaded Recombinant Mouse 4-1BB/CD137 Protein, hFc Tag (Cat. No. 50811-M02H) on proA Biosensor, can bind Recombinant Mouse 4-1BB Ligand/TNFSF9 Protein, His Tag (Cat. No. 50067-M07H) with an affinity constant of 0.807 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).

Endotoxin:

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

Stability:

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

Predicted N terminal: His

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.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

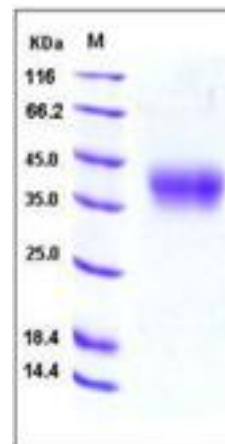
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein 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.

References

1. Cheung CT, (2007) Neutralizing anti-4-1BBL treatment improves cardiac function in viral myocarditis. *Lab Invest.* 87(7): 651-61. 2. Wang C, *et al.* (2009) Immune regulation by 4-1BB and 4-1BBL: complexities and challenges. *Immunol Rev.* 229(1): 192-215. 3. Habib-Agahi M, *et al.* (2009) 4-1BBL costimulation retrieves CD28 expression in activated T cells. *Cell Immunol.* 256(1-2): 39-46.

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