

## **PRODUCT INFORMATION**

4-1BB Ligand **Target** 

4-1BB Ligand; TNFSF9; CD137L Synonyms

Recombinant human 4-1BB Ligand Protein with N-**Description** 

terminal mouse Fc and C-terminal 6×His tag

**Delivery** In Stock **Uniprot ID** P41273 **Expression Host HEK293** 

N-Mouse Fc and C-6×His Tag Tag

mFc(Pro99-Lys330) 4-1BB Ligand(Pro52-Glu254) Molecular

Characterization

The protein has a predicted molecular mass of 49.8 kDa after removal of the signal peptide. The apparent molecular mass of mFc-4-1BB Ligand-

**Molecular Weight** His is approximately 53-70 kDa due to

glycosylation.

The purity of the protein is greater than 95% as Purity

determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are

involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon

antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to

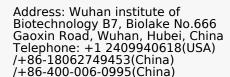
reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell

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interaction.

Usage Research use only

Conjugate Unconjugated



Background





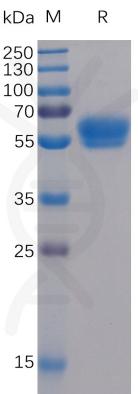


Figure 1. Human 4-1BB Ligand Protein, mFc-His Tag on SDS-PAGE under reducing condition.

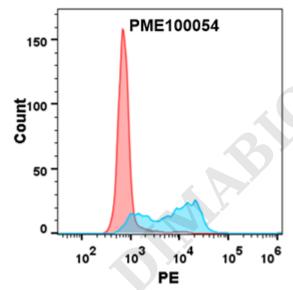


Figure 2. Flow cytometry analysis with 15ug/ml Human 4-1BB Ligand Protein, mFc-His tag (PME100054) on Expi293 cells transfected with human 4-1BB (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

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