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Datasheet for ABIN6961118

**TNFSF9 Protein (mFc-His Tag)****2** Images

## Overview

Quantity:	100 µg
Target:	TNFSF9
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNFSF9 protein is labelled with mFc-His Tag.

## Product Details

Purpose:	Recombinant human 4-1BB Ligand Protein with N-terminal mouse Fc and C-terminal 6xHis tag
Specificity:	MFc (Pro99-Lys330) 4-1BB Ligand (Pro52-Glu254) 6xHis
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	TNFSF9
Alternative Name:	4-1BB Ligand ( <a href="#">TNFSF9 Products</a> )
Background:	Synonyms: 4-1BB Ligand, TNFSF9, CD137L Description: 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

## Target Details

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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 interaction.

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Molecular Weight: predicted molecular mass of 49.8 kDa after removal of the signal peptide. The apparent molecular mass of mFc-4-1BB Ligand-His is 53-70 kDa due to glycosylation.

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Gene ID: 8744

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UniProt: [P41273](#)

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Pathways: [Activated T Cell Proliferation, Cancer Immune Checkpoints](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Reconstitute with deionized water

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Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

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Preservative: Without preservative

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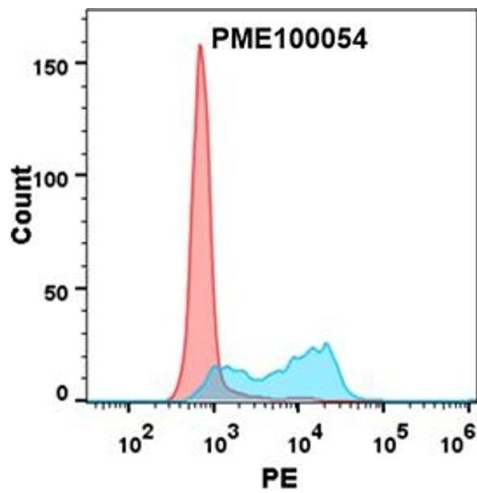
Storage: -20 °C, -80 °C

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Storage Comment: 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).  
Lyophilized proteins are shipped at ambient temperature.

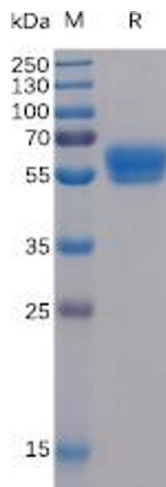
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Expiry Date: 12 months



### Flow Cytometry

**Image 1.** Flow cytometry analysis with 15 µg/mL Human 4-1BB Ligand Protein, mFc-His tag (ABIN6961118) on Expi293 cells transfected with human 4-1BB (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).



### SDS-PAGE

**Image 2.** Human 4-1BB Ligand Protein, mFc-His Tag on SDS-PAGE under reducing condition.