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Datasheet for ABIN5954977

## TNFSF9 Protein (AA 50-254) (Fc Tag,AVI tag,Biotin)

### 2 Images

#### Overview

Quantity:	200 µg
Target:	TNFSF9
Protein Characteristics:	AA 50-254
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TNFSF9 protein is labelled with Fc Tag,AVI tag,Biotin.

#### Product Details

Sequence:	AA 50-254
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

#### Target Details

Target:	TNFSF9
Alternative Name:	4-1BB Ligand ( <a href="#">TNFSF9 Products</a> )
Background:	Tumor necrosis factor ligand superfamily member 9 (4-1BBL) is also known as 4-1BB ligand,

## Target Details

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CD137L or TNFSF9, which is a cytokine that binds to TNFRSF9. 4-1BBL is the high affinity ligand of 4-1BB. 4-1BBL induces the proliferation of activated peripheral blood T-cells. Also, 4-1BBL may have a role in activation-induced cell death (AICD). Furthermore, 4-1BBL may play a role in cognate interactions between T-cells and B-cells/macrophages. As for diseases, 4-1BBL is involved in cancers, infectious diseases and autoimmune diseases.

Molecular Weight: 50.2 kDa

NCBI Accession: [NP\\_003802](#)

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

## Application Details

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Comment: Ready-to-use Avitag™ biotinylated protein:  
The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

## Handling

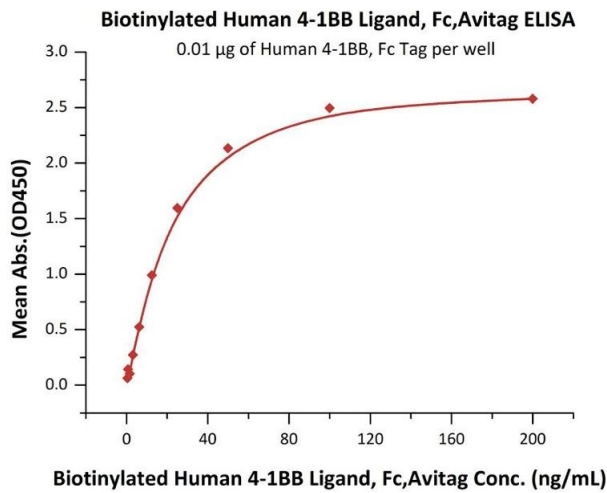
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Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

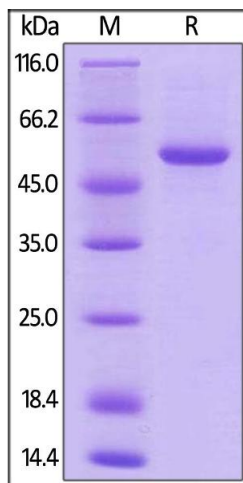
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



### ELISA

**Image 1.** Immobilized Human 4-1BB, Fc Tag (ABIN2180548,ABIN2180547) at 0.1 µg/mL (100 µL/well) can bind Biotinylated Human 4-1BB Ligand, Fc,Avitag (ABIN5954977,ABIN6253642) with a linear range of 0.4-13 ng/mL (QC tested).



### SDS-PAGE

**Image 2.** Biotinylated Human 4-1BB Ligand, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .