

Datasheet for ABIN7273930

**TNFSF9 Protein (Trimer) (Fc Tag,Biotin)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TNFSF9
Protein Characteristics:	Trimer
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNFSF9 protein is labelled with Fc Tag,Biotin.

## Product Details

Purpose:	Biotinylated Human 4-1BB Ligand/TNFSF9 Trimer Protein (Primary Amine Labeling)
Sequence:	Arg71-Glu254
Characteristics:	Recombinant Biotinylated Human 4-1BB Ligand/TNFSF9 Trimer Protein (Primary Amine Labeling) is expressed from HEK293 with monomeric hFc tag at the N-Terminus.It contains Arg71-Glu254.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 90 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human 4-1BB, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human 4-1BB Ligand (Trimer) , hFc Tag with the EC50 of 61ng/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	TNFSF9
Alternative Name:	4-1BB Ligand ( <a href="#">TNFSF9 Products</a> )
Background:	The 4-1BBL is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. 4-1BB ligand (4-1BBL) is an inducible molecule present on several APC types, including B cells, macrophages and DCs. 4-1BB:4-1BBL pathway seems to amplify the existing costimulatory signals, even if the engagement of 4-1BB in the presence of a strong TCR signaling can induce IL-2 production in a CD28-independent manner.
Molecular Weight:	84.3 kDa same as Tris-Bis PAGE result.
UniProt:	<a href="#">P41273</a>
Pathways:	<a href="#">Activated T Cell Proliferation</a> , <a href="#">Cancer Immune Checkpoints</a>

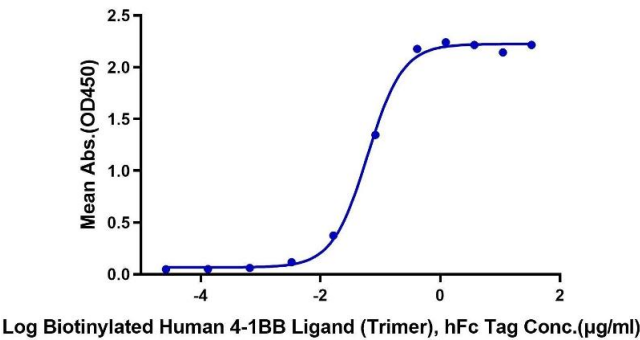
## Application Details

Restrictions:	For Research Use only
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## Handling

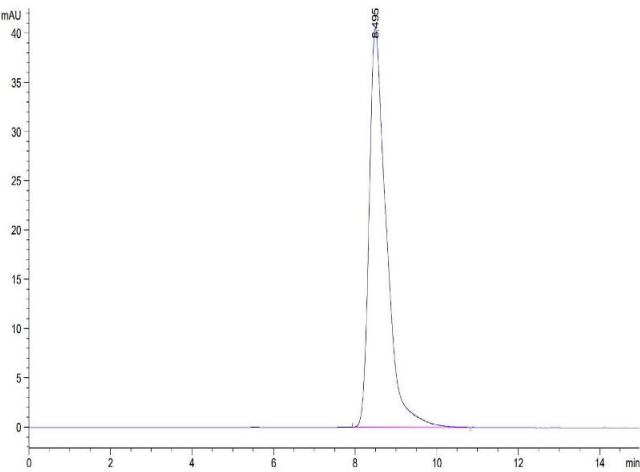
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS, 100 mM L-arginine (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C, -80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

**Biotinylated Human 4-1BB Ligand (Trimer), hFc Tag ELISA**  
0.05µg Human 4-1BB, hFc Tag Per Well



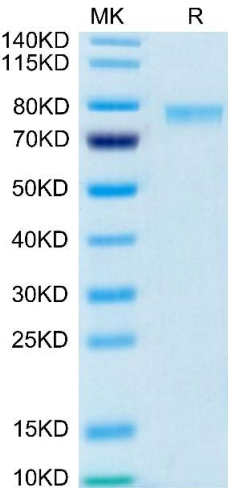
**ELISA**

**Image 1.** Immobilized Human 4-1BB, hFc Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Human 4-1BB Ligand (Trimer), hFc Tag with the EC50 of 61 ng/mL determined by ELISA.



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of Biotinylated Human 4-1BB Ligand (Trimer) is greater than 95 % as determined by SEC-HPLC.



**SDS-PAGE**

**Image 3.** Biotinylated Human 4-1BB Ligand (Trimer) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.