

# Biotinylated Human 4-1BB/TNFRSF9 Protein, Ultra Low Endotoxin

Cat. No. BB4-HM541B-UL

## Description

<b>Source</b>	Recombinant Biotinylated Human 4-1BB/TNFRSF9 Protein is expressed from HEK293 with hFc (IgG1) tag and Avi tag at the C-Terminus. It contains Leu24-Gln186.
<b>Accession</b>	Q07011
<b>Molecular Weight</b>	The protein has a predicted MW of 45.7 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

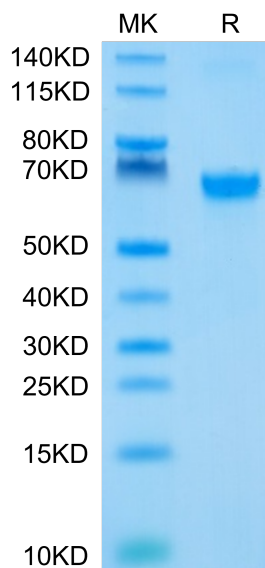
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

4-1BB, is also known as CD137, is a type 2 transmembrane glycoprotein receptor belonging to the TNF superfamily. CD137 can be expressed by activated T cells, but to a larger extent on CD8 than on CD4 T cells. In addition, CD137 expression is found on dendritic cells, B cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation.

## Assay Data

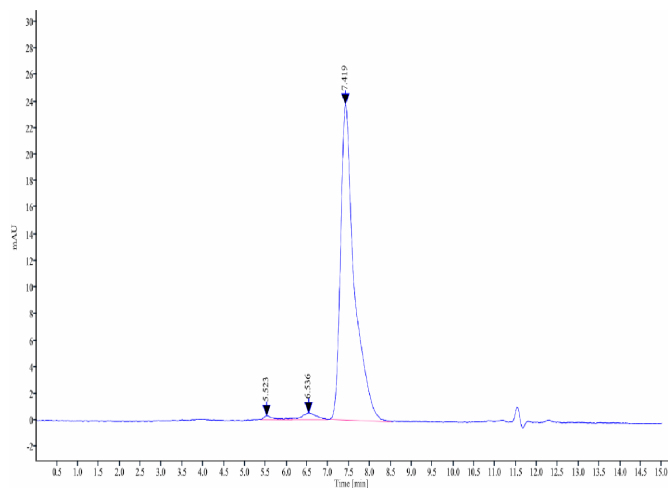
### Bis-Tris PAGE



Biotinylated Human 4-1BB on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

**Assay Data**

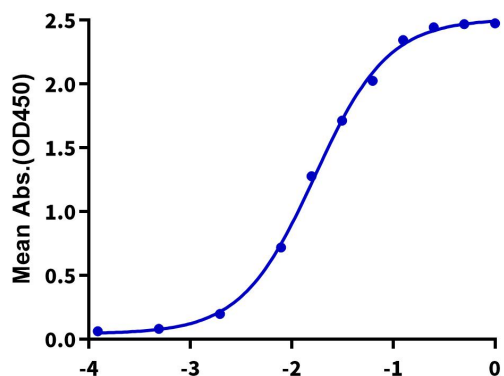


The purity of Biotinylated Human 4-1BB is greater than 95% as determined by SEC-HPLC.

**ELISA Data**

**Biotinylated Human 4-1BB, hFc-Avi Tag ELISA**

0.1µg Biotinylated Human 4-1BB, hFc-Avi Tag Per Well



Immobilized Biotinylated Human 4-1BB, hFc Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human 4-1BB Ligand (Trimer), His Tag (Cat. BBL-HM141) with the EC50 of 16.8ng/ml determined by ELISA.

**Log Human 4-1BB Ligand (Trimer), His Tag Conc.(µg/ml)**