

Cat. No. BB4-HM541-UL

Description	
Source	Recombinant Human 4-1BB/TNFRSF9 Protein is expressed from HEK293 with hFc (IgG1) tag and Avi tag at the C-Terminus. It contains Leu24-Gln186.
Accession	Q07011
Molecular Weight	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.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

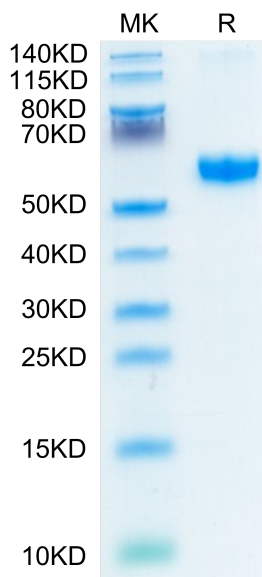
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 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

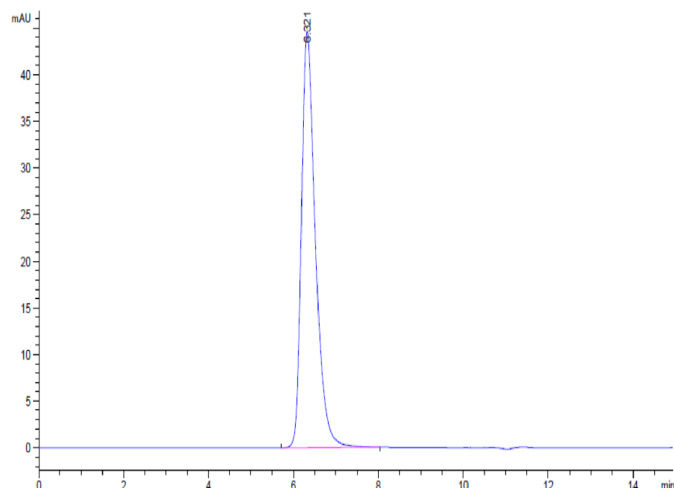
Bis-Tris PAGE



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

SEC-HPLC

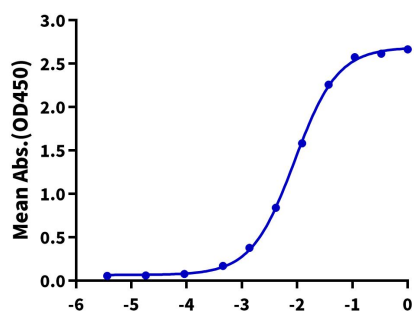
Assay Data



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

ELISA Data

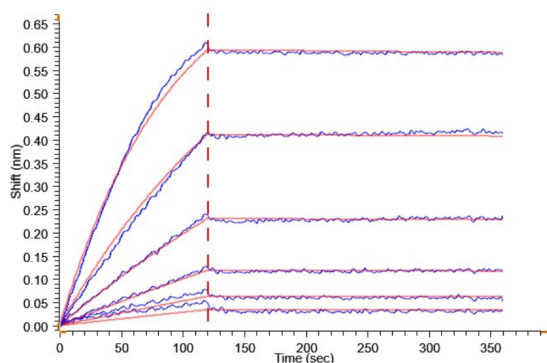
Human 4-1BB, hFc Tag ELISA
0.1µg Human 4-1BB, hFc Tag Per Well



Immobilized Human 4-1BB, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human 4-1BB Ligand (Trimer), hFc Tag with the EC50 of 9.0ng/ml determined by ELISA.

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

BLI Data



Loaded Non-biotinylated Human 4-1BB, hFc-Avi Tag on ProA-Biosensor can bind Human 4-1BB Ligand (Trimer), His Tag with an affinity constant of 0.18 nM as determined in BLI assay .