

Synonym

4-1BB Ligand,TNFSF9,CD137L

Source

Human 4-1BB Ligand (71-254) Protein, His,Flag Tag(41L-H52D4) is expressed from human 293 cells (HEK293). It contains AA Arg 71 - Glu 254 (Accession # [P41273-1](#)).

Predicted N-terminus: His

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus, followed by a flag tag

The protein has a calculated MW of 62.8 kDa. The protein migrates as 55-60 kDa under non-reducing (NR) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

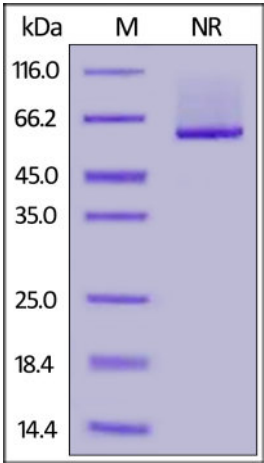
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

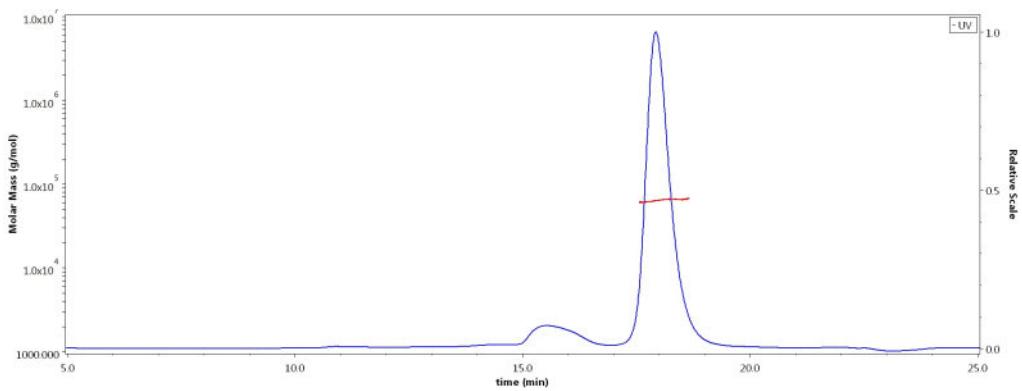
SDS-PAGE



Human 4-1BB Ligand (71-254) Protein, His,Flag Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

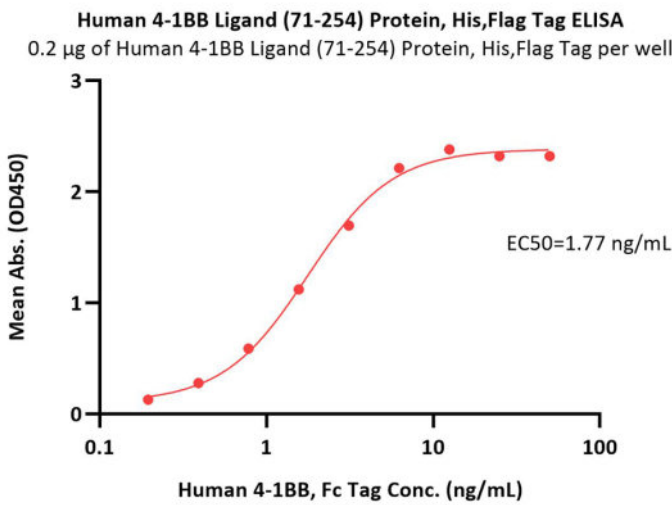
Bioactivity-ELISA

SEC-MALS



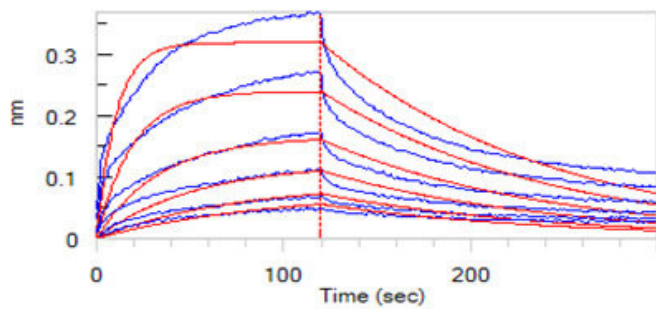
The purity of Human 4-1BB Ligand (71-254) Protein, His,Flag Tag (Cat. No. 41L-H52D4) is more than 85% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human 4-1BB Ligand (71-254) Protein, His,Flag Tag (Cat. No. 41L-H52D4) at 2 µg/mL (100 µL/well) can bind Human 4-1BB, Fc Tag (Cat. No. 41B-H5258) with a linear range of 0.2-3 ng/mL (QC tested).

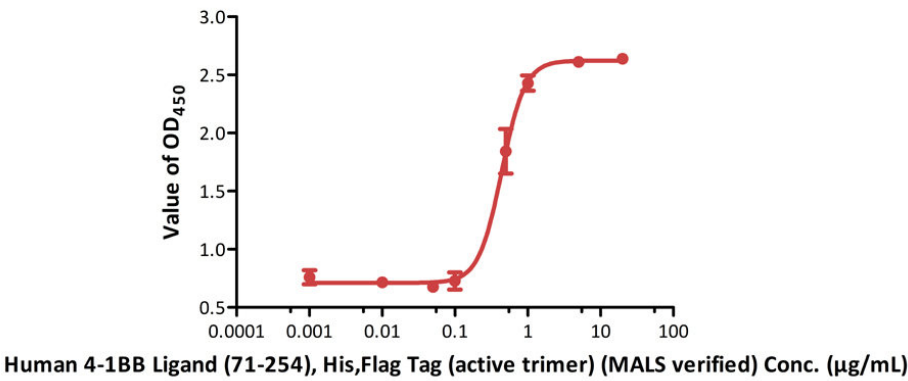
Bioactivity-BLI



Loaded Mouse 4-1BB, Fc Tag (Cat. No. 41B-M5258) on Protein A Biosensor, can bind Human 4-1BB Ligand (71-254) Protein, His,Flag Tag (Cat. No. 41L-H52D4) with an affinity constant of 18.6 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Bioactivity-Bioactivity CELL BASE

Human 4-1BB Ligand (71-254), His,Flag Tag (active trimer) (MALS verified) induce IL-8 secretion in HT1080 human CD137 cell line



Human 4-1BB Ligand (71-254) Protein, His,Flag Tag (Cat. No. 41L-H52D4) induce IL-8 secretion in HT1080 human CD137 cell line. The EC50 for this effect is 0.20-0.44 µg/mL (Routinely tested).

Background

Tumor necrosis factor ligand superfamily member 9 (4-1BBL) is also known as 4-1BB ligand, 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.