Cynomolgus 4-1BB Ligand / TNFSF9 Protein, Fc Tag, active trimer (MALS verified)

Catalog # 41L-C5254

Synonym

4-1BB Ligand,TNFSF9,CD137L

Source

Cynomolgus 4-1BB Ligand, Fc Tag (41L-C5254) is expressed from human 293 cells (HEK293). It contains AA Leu 67 - Glu 251 (Accession # XP_015296398.1) trimer design.
Predicted N-terminus: Pro

Molecular Characterization

This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 87.4 kDa. The protein migrates as 90-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH7.5 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

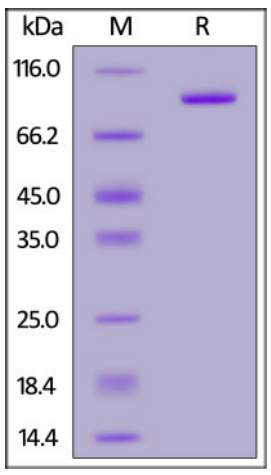
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

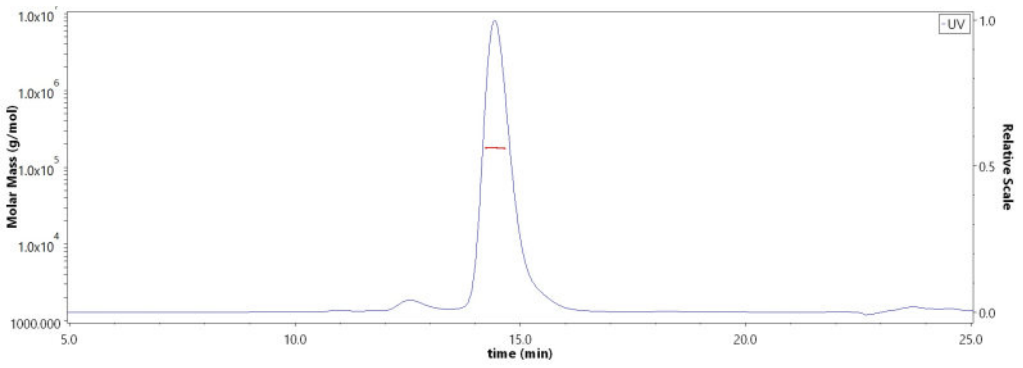
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



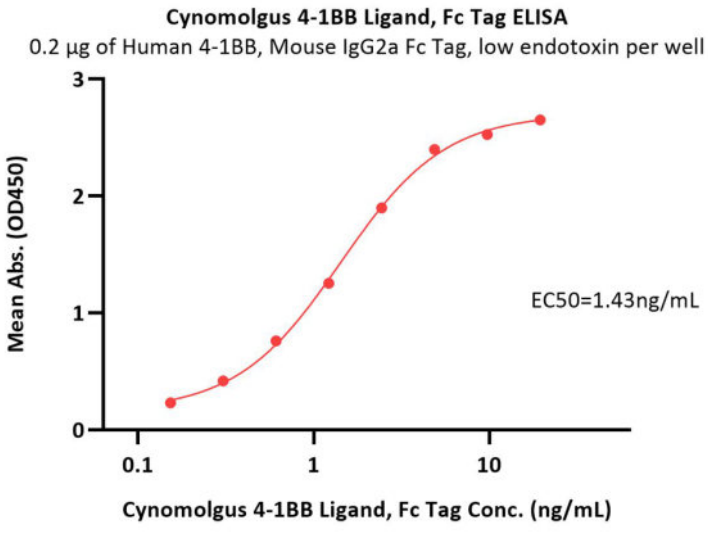
Cynomolgus 4-1BB Ligand, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Cynomolgus 4-1BB Ligand, Fc Tag (Cat. No. 41L-C5254) is more than 90% and the molecular weight of this protein is around 160-196 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human 4-1BB, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. 41B-H5256) at 2 μg/mL (100 μL/well) can bind Cynomolgus 4-1BB Ligand, Fc Tag (Cat. No. 41L-C5254) with a linear range of 0.2-2 ng/mL (QC 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.