



Synonym

CD70,CD27LG,TNFSF7,TNFSF7G,CD27L

Source

Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (CDL-H82D7) is expressed from human 293 cells (HEK293). It contains AA Ser 52 - Pro 193 (Accession # [P32970-1](#)) trimer Design.

Predicted N-terminus: His

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus, followed by a flag tag. The Avi tag (Avitag™) is inserted in-between the polyhistidine tag and flag tag.

The protein has a calculated MW of 51.0 kDa. The protein migrates as 47-57 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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

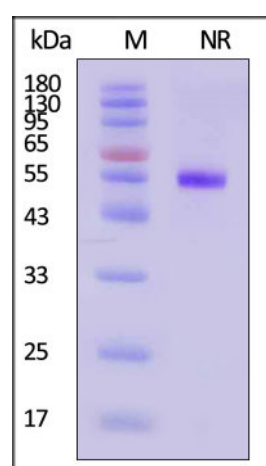
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

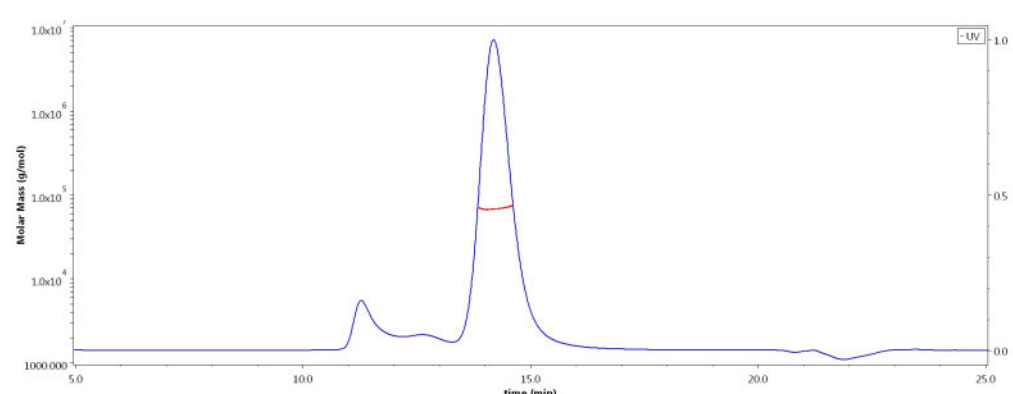
SDS-PAGE



Biotinylated Human CD27 Ligand, His,Avitag,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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS

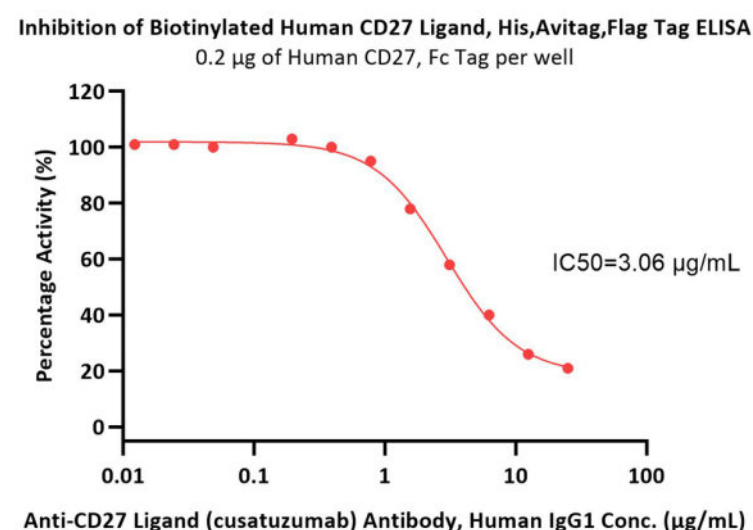
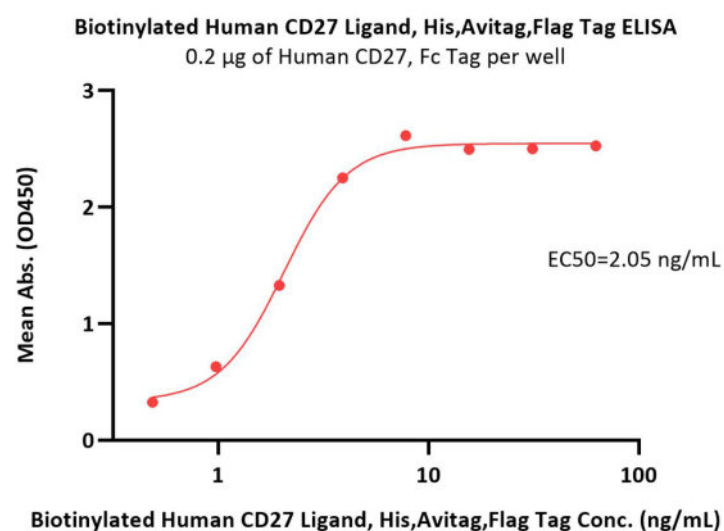


The purity of Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (Cat. No. CDL-H82D7) is more than 85% and the molecular weight of this protein is around 65-85 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human CD27, Fc Tag (Cat. No. CD7-H5254) at 2 µg/mL (100 µL/well) can bind Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (Cat. No. CDL-H82D7) with a linear range of 0.1-4 ng/mL (QC tested).

Serial dilutions of Anti-CD27 Ligand (cusatuzumab) Antibody, Human IgG1 were added into Human CD27, Fc Tag (Cat. No. CD7-H5254) : Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (Cat. No. CDL-H82D7) binding reactions. The half maximal inhibitory concentration (IC50) is 3.05858 µg/mL (Routinely tested).

Background

Cluster of Differentiation 70 (CD70) is also known as CD27 ligand (CD27L / CD27LG), TNFSF7, TNFSF7G, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and is a surface antigen found on activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T-cells, and thus is involved in the biological processes including T-cell activation, the proliferation of costimulated T-cells, as well as the generation of cytolytic T-cells. CD70 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion and the promotion of effector T cell formation. CD70 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses. CD70 induces proliferation and IFN γ production, on NK cells.

Clinical and Translational Updates

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

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