



### Synonym

CD70,CD27LG,TNFSF7,TNFSF7G,CD27L

### Source

Human CD27 Ligand Protein, His,Flag Tag (CDL-H52Da) 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 protein has a calculated MW of 49.3 kDa. The protein migrates as 50-60 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### 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

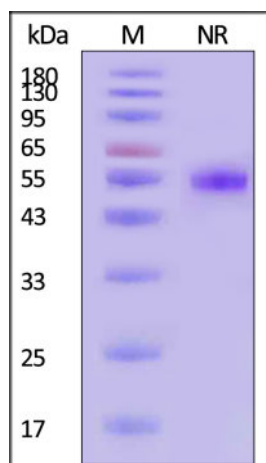
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

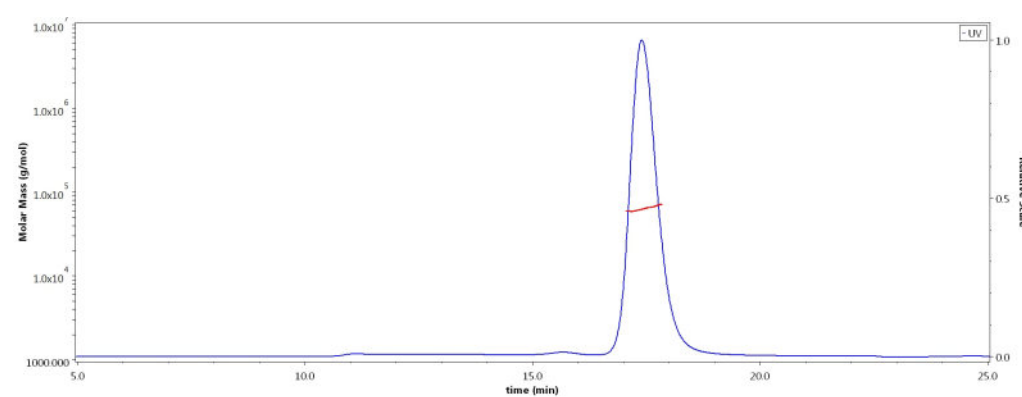
### SDS-PAGE



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

### Bioactivity-ELISA

### SEC-MALS

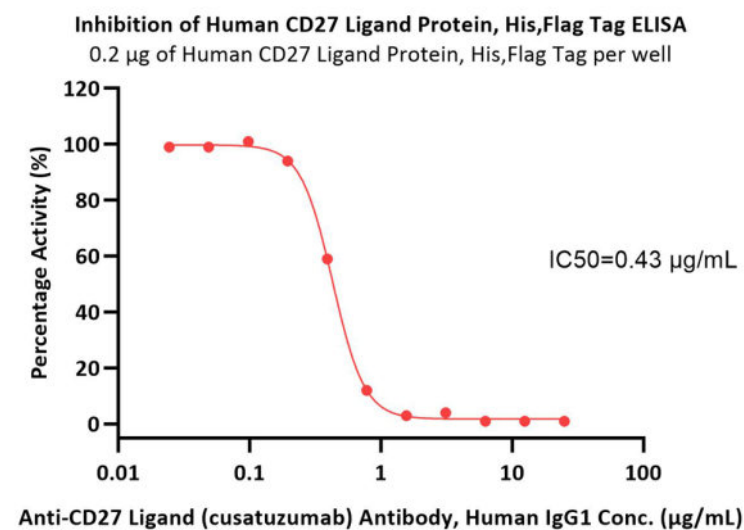
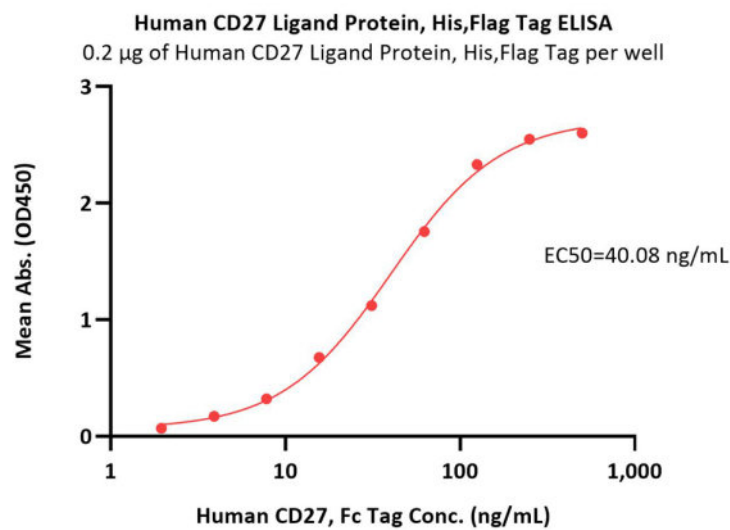


The purity of Human CD27 Ligand Protein, His,Flag Tag (Cat. No. CDL-H52Da) is more than 90% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)

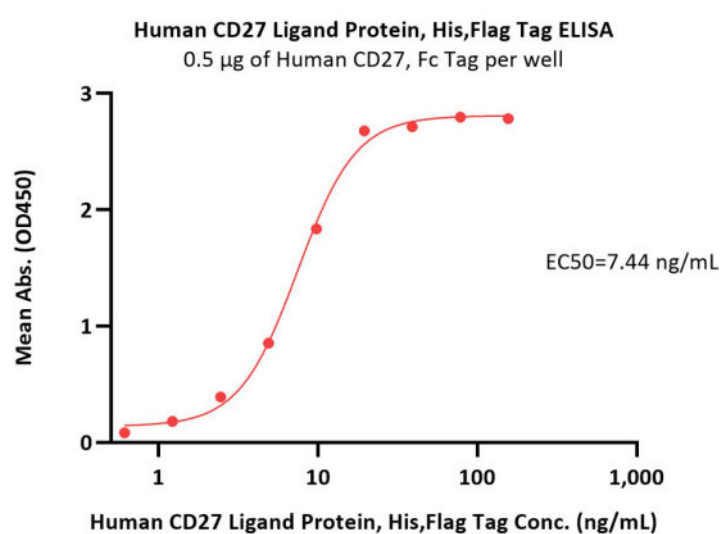
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and more!





Immobilized Human CD27 Ligand Protein, His,Flag Tag (Cat. No. CDL-H52Da) at 2 µg/mL (100 µL/well) can bind Human CD27, Fc Tag (Cat. No. CD7-H5254) with a linear range of 2-125 ng/mL (QC tested).

Serial dilutions of Anti-CD27 Ligand (cusatuzumab) Antibody, Human IgG1 were added into Human CD27 Ligand Protein, His,Flag Tag (Cat. No. CDL-H52Da) : Biotinylated Human CD27, Fc,Avitag (Cat. No. TN7-H82F6) binding reactions. The half maximal inhibitory concentration (IC50) is 0.42856 µg/mL (Routinely tested).



Immobilized Human CD27, Fc Tag (Cat. No. CD7-H5254) at 5 µg/mL (100 µL/well) can bind Human CD27 Ligand Protein, His,Flag Tag (Cat. No. CDL-H52Da) with a linear range of 0.6-20 ng/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 $\gamma$  production, on NK cells.

## Clinical and Translational Updates

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