



## Synonym

CD70,CD27LG,TNFSF7,TNFSF7G,CD27L

## Source

Mouse CD27 Ligand Protein, Mouse IgG2a Fc Tag(CDL-M5251) is expressed from human 293 cells (HEK293). It contains AA Gln 47 - Pro 195 (Accession # [O55237-1](#)).

Predicted N-terminus: Glu

## Molecular Characterization

mFc(Glu 98 - Lys 330) P01863	CD27 Ligand(Gln 47 - Pro 195) O55237-1
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This protein carries a mouse IgG2a Fc tag at the N-terminus.

The protein has a calculated MW of 43.5 kDa. The protein migrates as 47-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.1 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 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

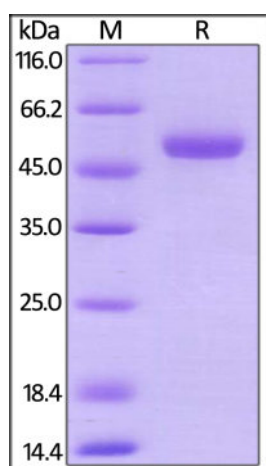
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

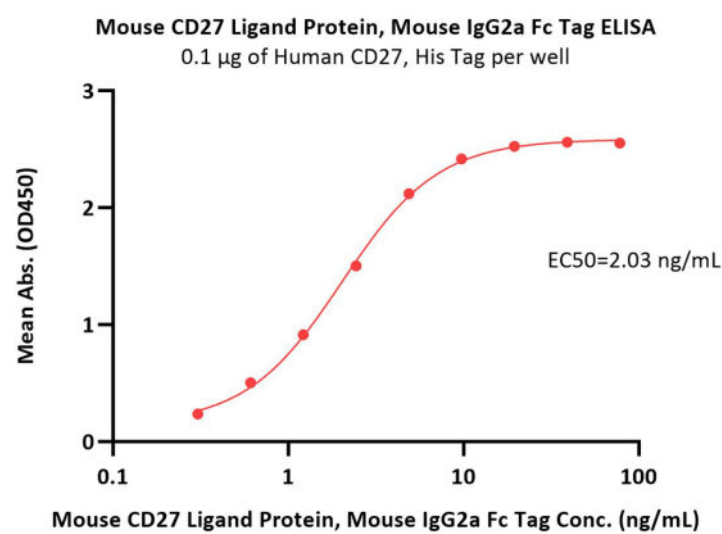


Mouse CD27 Ligand Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

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Immobilized Human CD27, His Tag (Cat. No. CD7-H522b) at 1 µg/mL (100 µL/well) can bind Mouse CD27 Ligand Protein, Mouse IgG2a Fc Tag (Cat. No. CDL-M5251) with a linear range of 0.3-5 ng/mL (QC 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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