Human CD27 Ligand / CD70 Protein, Mouse IgG2a Fc Tag, low endotoxin

Catalog # CDL-H525a

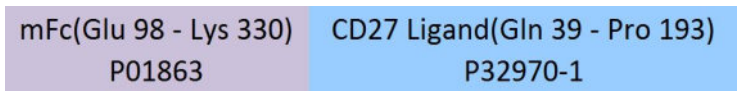
Synonym

CD70,CD27LG,TNFSF7,TNFSF7G,CD27L

Source

Human CD27 Ligand Protein, Mouse IgG2a Fc Tag(CDL-H525a) is expressed from human 293 cells (HEK293). It contains AA Gln 39 - Pro 193 (Accession # P32970-1).
Predicted N-terminus: Glu

Molecular Characterization



This protein carries a mouse IgG2a Fc tag at the N-terminus.

The protein has a calculated MW of 44.0 kDa. The protein migrates as 50-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per μg by the LAL method / rFC method.

Purity

>85% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and 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

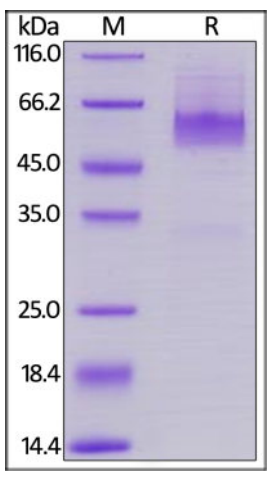
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

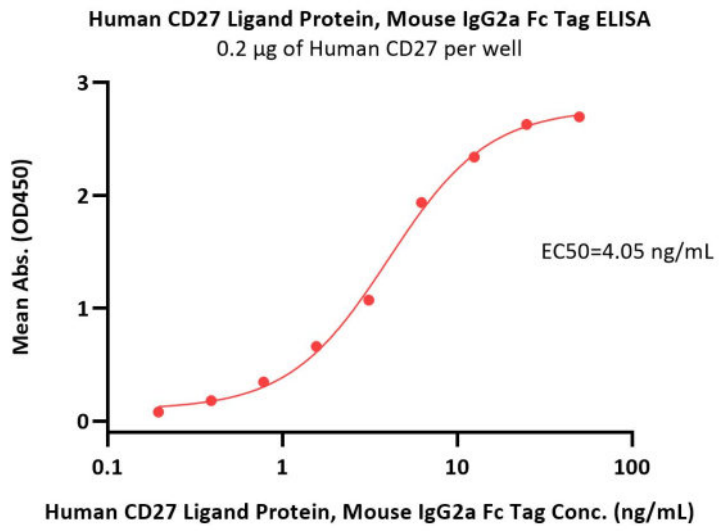
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human 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 85%.

Bioactivity-ELISA



Immobilized Human CD27, His Tag (Cat. No. CD7-H522b) at 2 μg/mL (100 μL/well) can bind Human CD27 Ligand Protein, Mouse IgG2a Fc Tag (Cat. No. CDL-H525a) with a linear range of 0.1-8 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 invloved 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 IFNγ production, on NK cells.