

CD27 Ligand/CD70 Trimer Protein (Primary Amine Labeling), Human, Recombinant (His),

## General Information

**Synonyms:** CD27-L;CD70 molecule;TNFSF7G;CD70;CD27LG;CD27 Ligand;TNFSF7; Ki-24 antigen

**Protein Construction:** Leu50-Pro193

**Species:** Human

**Expression Host:** HEK293 Cells

**Accession:** P32970-1

**Molecular Weight:** 51.8 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

## QC Testing

**Biological Activity:** Immobilized Human CD27, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human CD27 Ligand (Trimer) , His Tag with the EC50 of 9.2ng/ml determined by ELISA.

**Purity:** > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

**Endotoxin:** < 1.0 EU/µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

CD70, also named CD27 ligand (CD27L), is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and has been designated TNFSF7. CD70 is a cytokine that binds to CD27. Plays a role in T-cell activation. Induces the proliferation of costimulated T-cells and enhances the generation of cytolytic T-cells.

Reference

Buchan S L, et al. The immunobiology of CD27 and OX40 and their potential as targets for cancer immunotherapy [J]. Blood, 2017: blood-2017-07-741025.

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