

## CD27 Ligand/CD70 Trimer Protein, Human, Recombinant (His)

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | TNFSF7;CD27 Ligand; Ki-24 antigen;CD70 molecule;CD27-L;CD27LG;CD70;TNFSF7G                                   |
| 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 62-65 kDa based on Tris-Bis PAGE result. |

### QC Testing

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|----------------------|--|
| Biological Activity: | Immobilized Human CD27 Ligand Trimer, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human CD27, hFc Tag with the EC50 of 13.5ng/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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