

CD27 Ligand/CD70 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	CD70 molecule;TNFSF7;CD70;TNFSF7G;CD27-L;CD27LG;CD27 Ligand; Ki-24 antigen
Protein Construction:	Gln39-Pro194
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G7PYU6-1
Molecular Weight:	18.4 kDa (predicted). Due to glycosylation, the protein migrates to 60-90 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus CD27 Ligand, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Cynomolgus/Rhesus macaque CD27, hFc Tag with the EC50 of 28.3ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
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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