

CD40 Ligand Protein, Mouse, Recombinant (monomeric hFc)

General Information

Synonyms:	IMD3;CD40LG;CD40L;IGM;TRAP;T-BAM;gp39;HIGM1;CD154;CD40LIGM;CD40 Ligand;TNFSF5;TNFSF5IMD3
Protein Construction:	Met112-Leu260
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P27548
Molecular Weight:	75.6 kDa (predicted). Due to glycosylation, the protein migrates to 76-80 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Mouse CD40, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 25.6ng/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, 200 mM L-arginine (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

CD40 ligand or CD40L, also called CD154, is a protein that is primarily expressed on activated T cells and is a member of the TNF superfamily of molecules. It binds to CD40 (protein) on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. In total CD40L has three binding partners: CD40, α5β1

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integrin and $\alpha\text{Ib}\beta\text{3}$. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

Reference

Pound, J. D. Minimal cross-linking and epitope requirements for CD40-dependent suppression of apoptosis contrast with those for promotion of the cell cycle and homotypic adhesions in human B cells[[]]. International Immunology, 1999, 11(1):11-20

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