

CD40 Ligand Protein, Human, Recombinant (His & Flag)

General Information

Synonyms:	CD40LG;Tumor Necrosis Factor Ligand Superfamily Member 5;TRAP;CD40L;TNFSF5;T-Cell Antigen Gp39;CD154;TNF-Related Activation Protein;CD40-L;CD40 Ligand
Protein Construction:	Gly116-Leu261
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P29965
Molecular Weight:	19-24 KDa (reducing condition)
AA Sequence:	Gly116-Leu261

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

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:

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 (CD40LG) is a type II transmembrane glycoprotein that belongs to the TNF superfamily. Like other TNF superfamily members, CD40LG exists as a trimer in membrane bound and soluble form, both of which are bioactive. CD40LG is a ligand for CD40; its ligation also initiates signal transduction in CD40LG expressing cells. CD40LG is a differentiation antigen that is expressed on the surface of T-cells. It stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40LG has been shown to induce cytokine

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production and tumoricidal activity in peripheral blood monocytes. It also co-stimulates proliferation of activated T-cells and this is accompanied by the production of IFN-gamma, TNF-alpha, and IL2.

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