

CD40 Ligand Protein (Primary Amine Labeling), Human, Recombinant (His & Flag), Biotinylated

General Information

Synonyms:	IMD3;TNFSF5IMD3;TRAP;CD40LIGM;CD40 Ligand;HIGM1;gp39;IGM;TNFSF5;CD40LG;CD154;T-BAM;CD40L
Protein Construction:	Met113-Leu261
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P29965
Molecular Weight:	52.4 kDa (predicted). Due to glycosylation, the protein migrates to 55-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Human CD40 Ligand Trimer, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human CD40, hFc Tag with the EC50 of 0.61µg/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

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

A DRUG SCREENING EXPERT

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

Bjorck P, et al. The CD40 agonistic monoclonal antibody APX005M has potent immune stimulatory capabilities[J]. Journal for Immunotherapy of Cancer, 2015, 3(S2):P198.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481