

MOUSE CD40 LIGAND PROTEIN, HFC TAG

Cat.#: 12192

Product Name: Mouse CD40 Ligand Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CD40-L;TRAP;CD154;Cd40lg

Target: CD40 Ligand

UNIPROT ID: P27548

Description: Recombinant mouse CD40L protein with N-terminal human Fc tag

Background: Cytokine that binds to CD40/TNFRSF5. Costimulates T-cell proliferation and cytokine production. Its cross-linking on T-cells generates a costimulatory signal which enhances the production of IL4 and IL10 in conjunction with the TCR/CD3 ligation and CD28 costimulation. Induces the activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells (By similarity). Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4. Involved in immunoglobulin class switching (PubMed:1374165).[UniProtKB/Swiss-Prot Function]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 42.1 kDa after removal of the signal peptide. The apparent molecular mass of hFc-CD40L is approximately 40-55 kDa due to glycosylation.

Molecular Characterization: hFc(Glu99-Ala330) Mouse CD40 Ligand(Gly115-Leu260)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

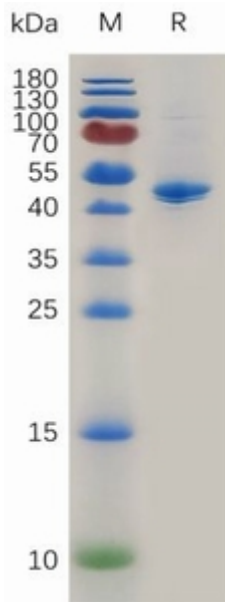


Figure 1. Mouse CD40 Ligand Protein, hFc Tag on SDS-PAGE under reducing condition.