Biotinylated Recombinant Human TNFSF5/CD40 Ligand/CD154 Trimer Protein (Primary Amine Labeling)

Catalog No.: RP00538B

Sequence Information

Species
Human

Gene ID
959

Swiss Prot
P29965

Tags
N-His&Flag

Synonyms
CD40L; CD40LG; CD154; TNFSF5; TNFSF5IMD3; CD40LIGM; gp39; HIGM1; T-BAM; TRAP; IGM; IMD3; CD40 Ligand

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
52.4 kDa

Observed MW
55-60 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 integrin and αIIbβ3. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

Basic Information

Description
Biotinylated Recombinant Human TNFSF5/CD40 ligand/CD154 Trimer Protein (Primary Amine Labeling) is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met113-Leu261) of Human TNFSF5/CD40 ligand/CD154 Trimer (Primary Amine Labeling) (Accession #P29965) fused with a N-His&Flag tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

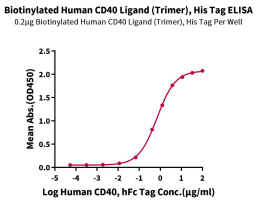
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

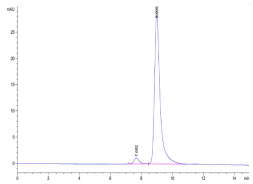
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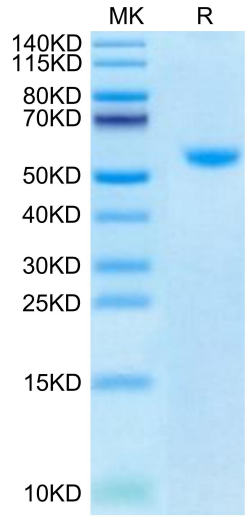
Validation Data



Immobilized Biotinylated Human CD40 Ligand Trimer, His Tag at 2 μg/mL (100 μL /well) on the streptavidin precoated plate (5 μg/mL). Dose response curve for Human CD40, hFc Tag with the EC_{50} of 0.70 μg/mL determined by ELISA.



The purity of Biotinylated Human CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.



Biotinylated Recombinant Human TNFSF5/CD40 Ligand/CD154 Trimer Protein (Primary Amine Labeling) was determined by Tris-Bis PAGE under reducing conditions.