

Recombinant Human TNFSF5/CD40 Ligand/CD154 Trimer Protein

Catalog No.: RP00539 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	959	P29965

Tags

N-monomeric hFc

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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

Recombinant Human TNFSF5/CD40 ligand/CD154 Trimer Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met113-Leu261) of Human TNFSF5/CD40 ligand/CD154 Trimer (Accession #P29965) fused with a N-monomeric hFc tag at the N-terminus.

Bio-Activity

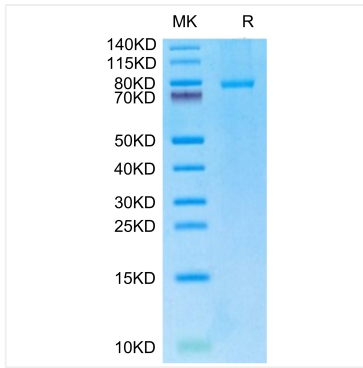
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

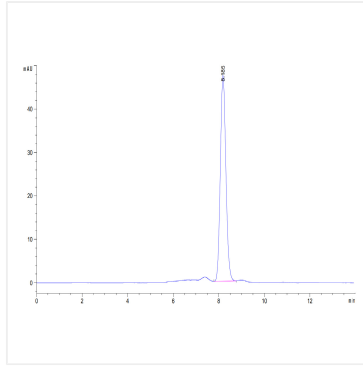
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

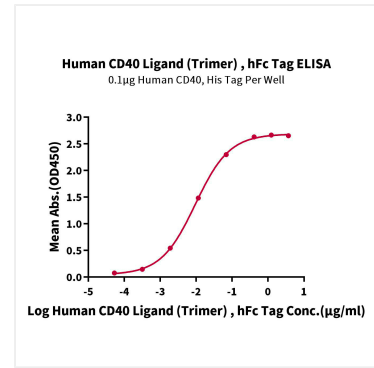
Validation Data



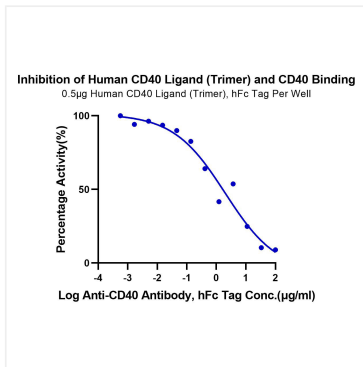
Human CD40 Ligand (Trimer) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Human CD40, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CD40 Ligand (Trimer), hFc Tag with the EC_{50} of 9.0ng/mL determined by ELISA (QC Test).



Serial dilutions of Anti-CD40 Antibody were added into Biotinylated Human CD40, His Tag : Human CD40 Ligand (Trimer), hFc Tag binding reactions. The half maximal inhibitory concentration (IC_{50}) is 2.0ug/mL.