

Recombinant Human TNFSF5/CD40 ligand/CD154 Protein

Catalog No.: RP01733 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	959	P29965

Tags

N-6His

Synonyms

IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L□CD40LG

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
16.64 kDa	20-27 kDa

Endotoxin

< 0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

CD154, also known as CD40 ligand or CD40L, is a member of the TNF superfamily. While CD154 was originally found on T cell surface, its expression has since been found on a wide variety of cells, including platelets, mast cells, macrophages and NK cells. CD154's ability is achieved through binding to the CD40 on antigen-presenting cells (APC). In the macrophage cells, the primary signal for activation is IFN-γ from Th1 type CD4 T cells. The secondary signal is CD40L on the T cell, which interacting with the CD40 molecules, helping increase the level of activation.

Basic Information

Description

Active Recombinant Human CD40-L/CD40L/TNFSF5/TRAP/CD40LG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly116-Leu261) of human CD40-L/CD40L/TNFSF5/TRAP/CD40LG(Accession #NP_000065.1) fused with and a 6×His tag at the N-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD40L (Catalog: RP01733) at 5 μg/mL (100 μL/well) can bind Human CD40 (Catalog: RP01218) with a linear range of 0.005-0.5 μg/mL.

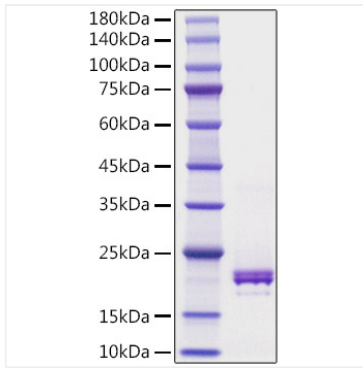
Storage

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

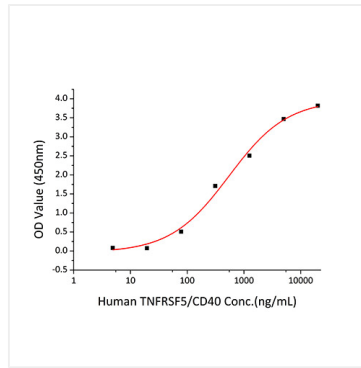
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Active Recombinant Human CD40-L/CD40L/TNFSF5/TRAP/CD40LG Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-27 kDa.



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