

# Recombinant Mouse TNFSF5/CD40 ligand/CD154 Protein

Catalog No.: RP01734 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21947	P27548

### Tags

N-6His

### Synonyms

IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5; Tnlg8b;CD40LG

## Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
16.83 kDa	19-22 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.

## Contact

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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

Recombinant Mouse TNFSF5/CD40 ligand/CD154 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly115-Leu260) of mouse CD40-L/CD40L/TNFSF5/TRAP/CD40LG (Accession #NP\_035746.2) fused with and a 6×His tag at the N-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CD40L (Catalog: RP01734) at 5 μg/mL (100 μL/well) can bind Human CD40 (Catalog: RP01218) with a linear range of 0.005-1 μg/mL.

### Storage

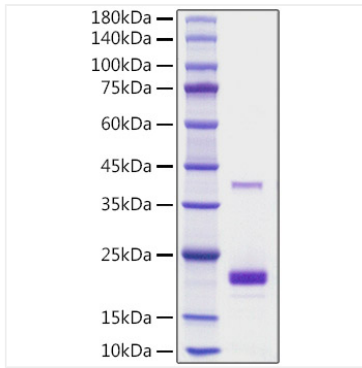
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

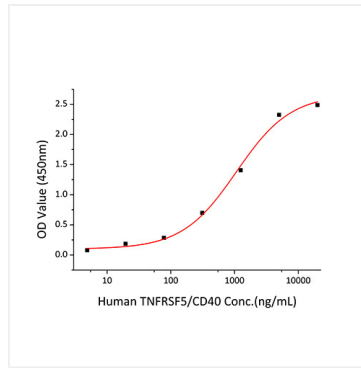
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse CD40-L/CD40L/TNFSF5/TRAP/CD40LG Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 19-22 kDa.



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