

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 ≥ 95 % as
 determined by SDS-
 PAGE.

Calculated MW **Observed MW**
 16.83 kDa 19-22 kDa

Endotoxin
 < 0.1 EU/μg of the protein by LAL
 method.

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 freeze/thaw cycles.

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.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

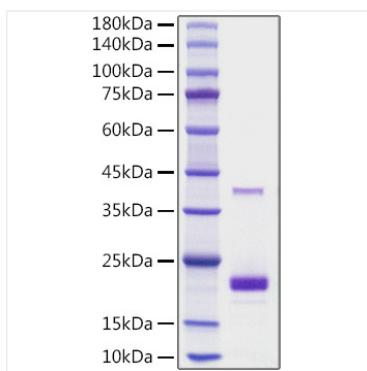
Operational Notes

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

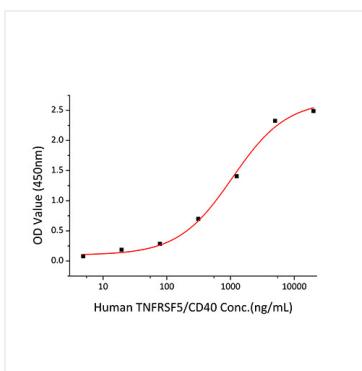
Contact

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Validation Data



Recombinant Mouse TNFSF5/CD40 ligand/CD154 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Mouse CD40L (Catalog: RP01734) at 5 μ g/mL (100 μ L/well) can bind Human CD40 (Catalog: RP01218) with a linear range of 0.005-1 μ g/mL.