Leader in Biomolecular Solutions for Life Science

www.abclonal.com

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

**Catalog No.: RP00538B** Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---|---|---|
| Human | 959 | P29965 |

**Tags**
N-His&Flag

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

## Product Information

| Source | Purification |
|---|---|
| HEK293 cells | ≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC. |

| Calculated MW | Observed MW |
|---|---|
| 52.4 kDa | 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.

## Contact


400-999-6126

cn.market@abclonal.com.cn


## 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

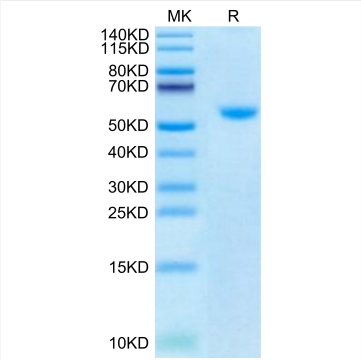
**Description**
Biotinylated Recombinant Human TNFSF5/CD40 ligand/CD154 Trimer Protein (Primary Amine Labeling) is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met113-Leu261) of Human TNFSF5/CD40 ligand/CD154 Trimer (Primary Amine Labeling) (Accession #P29965)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

**Bio-Activity**

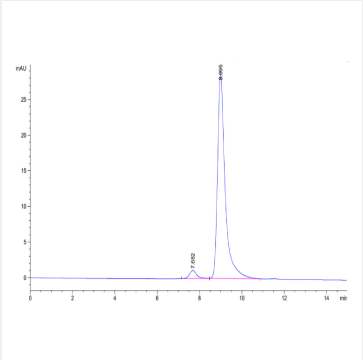
**Storage**
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

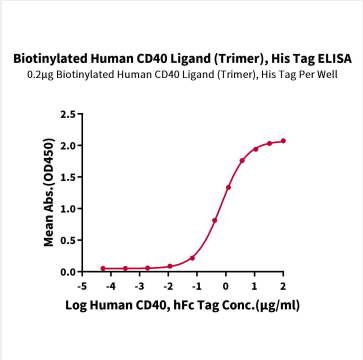
## Validation Data




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



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




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.