

For Research Use Only

Recombinant Mouse CD40L/CD154 protein (rFc Tag)



Catalog Number: Eg2390

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse CD40L protein Gly115-Leu260 (Accession# P27548) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
21947

Accession:
P27548

Predicted Molecular Mass:
43.2 kDa

SDS-PAGE:
40-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

The CD40 ligand (CD40L), also known as TRAP or CD154, is a member of the TNF superfamily of ligands. CD40L is primarily expressed on activated CD4+ T cells and on a small proportion of CD8+ T cells and platelets. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. It has been suggested that CD40/CD40L interactions regulate oxidative stress and affect various signaling pathways in both the immunological and the cardiovascular systems. The CD40/CD40L system is also involved in tumorigenesis. Its expression is tightly regulated, and abnormal levels of CD40L are associated with the pathogenesis of atheromatous plaque destabilization and thrombotic events. Multiple mutations in CD40LG gene have been identified that are associated with hyper-IgM immunodeficiency syndrome type 1.

References

1. Elgueta R. et al. (2009) Immunol Rev. 229(1):152-172.
2. Rizvi M. et al. (2008) Trends Mol Med. 14(12):530-538.
3. Michel N A. et al. (2017) Front Cardiovasc Med. 4:40.

Synonyms

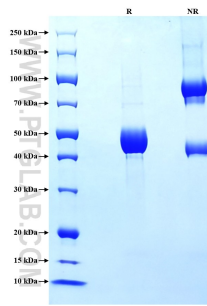
CD154, Cd40L, CD40 ligand, Cd40lg, Tnfsf5

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse CD40L was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.