

For Research Use Only

Recombinant Mouse CD40 Ligand/TNFSF5 protein (His Tag)



Catalog Number: Eg0990

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<1.0 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse CD40 Ligand/TNFSF5 protein Gly115-Leu260 (Accession# P27548) with a His tag at the N-terminus.

GeneID:

21947

Accession:

P27548

Predicted Molecular Mass:

17.1 kDa

SDS-PAGE:

Formulation:

Lyophilized from sterile 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, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33-kd transmembrane homologue or 18-kd soluble form (sCD154). 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 atherosclerotic 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. Mazzei, G J et al. The Journal of biological chemistry vol. 270,13 (1995): 7025-8.
2. Zhang, Bikui et al. Immunology letters vol. 153,1-2 (2013): 58-61.
3. Rizvi, Muhammad et al. Trends in molecular medicine vol. 14,12 (2008): 530-8.

Synonyms

CD154, Cd40l, CD40 ligand, Cd40lg, Tnfsf5

Selected Validation Data

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

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