

For Research Use Only

# Recombinant Mouse CD40 protein (His Tag)



Catalog Number: Eg1118

## Basic Information

**ED50:**  
/

**GeneID:**  
21939

**Species:**  
Mouse

**Accession:**  
P27512-1

**Purity:**  
>90 %, SDS-PAGE

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<1.0 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse CD40 protein Val24-Arg193 (Accession# P27512-1) with a His tag at the C-terminus.

**Predicted Molecular Mass:**  
19.8 kDa

**SDS-PAGE:**  
21-25 kDa, reducing (R) conditions

**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

CD40, also named as TNFRSF5 and Bp50, is a type I transmembrane protein that belongs to the tumor necrosis factor-R (TNF-R) family (PMID: 10647992). CD40 is expressed on B cells, dendritic cells (DCs), monocytes, platelets, and macrophages as well as by non-hematopoietic cells such as myofibroblasts, fibroblasts, epithelial, and endothelial cells (PMID: 19426221). It is a receptor for TNFSF5/CD40LG. CD40L/CD40 interactions are essential for immunoglobulin (Ig) isotype switching, germinal center formation and the development of B cell memory (PMID: 7516405; 11675497).

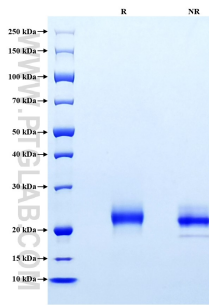
## References

- 1.van Kooten, C. et al. (2001) J Leukocyte Biol. 67(1):2-17.
- 2.Elgueta, R. et al. (2009) Immunol Rev.229(1):152-72.
- 3.Foy, TM. et al. (1994) J EXP MED. 180(1):157-63.
- 4.Ferrari, S. et al. (2001) P Natl Acad Sci USA. 98(22):12614-9.

## Synonyms

Cd40,Bp50,CD40 antigen,Tnfrsf5

## Selected Validation Data



Purity of Recombinant Mouse CD40 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.

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

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