

For Research Use Only

# Recombinant Human CD40 protein (rFc Tag)



Catalog Number: Eg1797

## Basic Information

**Species:**  
Human

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

**Tag:**  
rFc Tag

## Technical Specifications

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

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human CD40 protein Glu21-Arg193 (Accession# P25942-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
958

**Accession:**  
P25942-1

**Predicted Molecular Mass:**  
45.4 kDa

**SDS-PAGE:**  
48-60 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m 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

CD40, also named as TNFRSF5 and Bp50, is a type I transmembrane protein that belongs to the tumor necrosis factor receptor (TNFR) family. 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. It is a receptor for TNFSF5/CD40L. CD40L/CD40 interactions are essential for immunoglobulin (Ig) isotype switching, germinal center formation and the development of B cell memory.

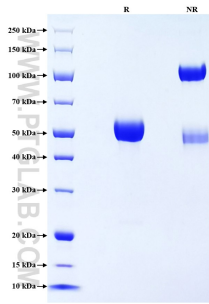
## References

1. TM Foy, et al. (1994) J Exp Med. 180(1):157-63.
2. C van Kooten, et al. (2000) J Leukoc Biol. 67(1):2-17.
3. S Ferrari, et al. (2001) Proc Natl Acad Sci U S A. 98(22):12614-9.
4. Raul Elgueta, et al. (2009) Immunol Rev. 229(1):152-72.

## Synonyms

CD40, Bp50, CD40L receptor, p50, TNFRSF5

## Selected Validation Data



Purity of Recombinant Human 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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