

# Recombinant Mouse TNFRSF5/CD40 Protein

Catalog No.: RP01325    Recombinant

## Sequence Information

**Species**    **Gene ID**    **Swiss Prot**  
 Mouse        21939        P27512

**Tags**

C-His

**Synonyms**

CD40;Bp50;CDW40;MGC9013;TNFRSF5;p50;CD40

## Background

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 is a costimulatory protein found on antigen presenting cells and is required for their activation, and is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Interaction of CD40 with its ligand, CD40L, leads to aggregation of CD40 molecules, which in turn interact with cytoplasmic components to initiate signaling pathways. Early studies on the CD40-CD40L system revealed its role in humoral immunity. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3).

## Product Information

**Source**    **Purification**  
 HEK293 cells     $\geq 95\%$  as determined by SDS-PAGE.

**Calculated MW**    **Observed MW**  
 20.20 kDa        25-30 kDa

**Endotoxin**  
 < 0.1 EU/ $\mu$ g of the protein by LAL method.

**Formulation**  
 Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

**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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Basic Information

**Description**

Recombinant Mouse TNFRSF5/CD40 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Arg193) of Mouse CD40 (Accession #NP\_035741.2) fused with an 6 $\times$ His tag at the C-terminus.

**Bio-Activity**

**Shipping**

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

**Storage**

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

**Operational Notes**

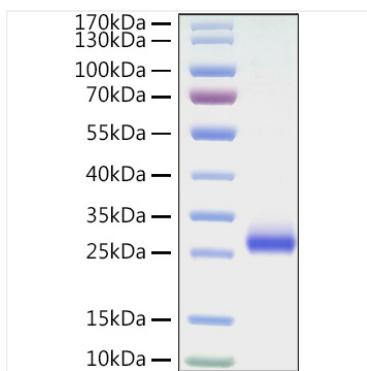
For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

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## Validation Data

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Recombinant Mouse TNFRSF5/CD40 Protein  
was determined by SDS-PAGE under  
reducing conditions with Coomassie Blue.