

# 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

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
20.20 kDa	25-30 kDa

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm 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 free-thaw cycles.

## Contact

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## Background

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. It 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).

## 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 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

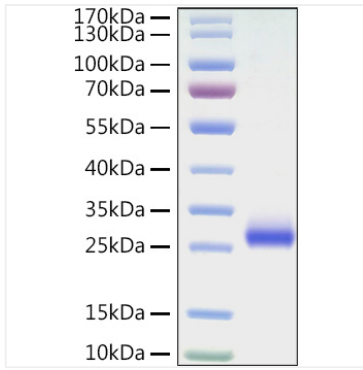
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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.

## Validation Data

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Recombinant Mouse TNFRSF5/CD40 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30kDa.