

Recombinant Mouse TNFRSF5/CD40 Protein

Catalog No.: RP01325

Sequence Information

Species **Gene ID**
Mouse 21939

Swiss Prot **Tags**
P27512 C-His

Synonyms

CD40, Bp50, CDW40, MGC9013,
TNFRSF5, p50, CD40

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

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

Endotoxin

< 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.

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 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

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

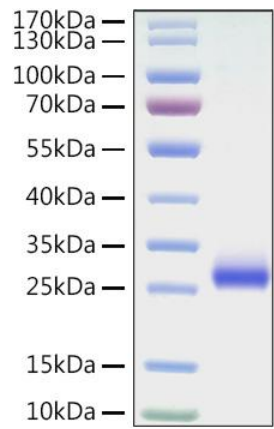
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Validation Data



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