

# Recombinant Human CD40/TNFRSF5 Protein (Fc Tag)

Catalog Number:PKSH032216

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by Elabscience

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

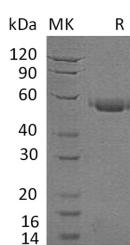
## Description

<b>Synonyms</b>	Tumor Necrosis Factor Receptor Superfamily member 5;B-Cell Surface Antigen CD40;Bp50;CD40L Receptor;CDw40;CD40;TNFRSF5
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Glu21-Arg193
<b>Accession</b>	P25942
<b>Calculated Molecular Weight</b>	46.3 kDa
<b>Observed molecular weight</b>	50-65 kDa
<b>Tag</b>	C-Fc
<b>Bioactivity</b>	Immobilized Human CD40L-His-Flag at 10 $\mu$ g/ml (100 $\mu$ l/well)can bind Human CD40-Fc. The ED <sub>50</sub> of Human CD40-Fc is 0.45 $\mu$ g/ml.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS,pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD40 is a Type I Transmembrane Glycoprotein that belongs to the TNF Receptor Superfamily. CD40 is expressed in B cells; follicular dendritic cells; dendritic cells; activated monocytes; macrophages; endothelial cells; vascular smooth muscle cells; and several tumor cell lines. The extracellular domain of CD40 is characterized by Cysteine rich repeat regions. Interaction of CD40 with its ligand (CD40L) leads to aggregation of CD40 molecules; which in turn interact with cytoplasmic components to initiate signaling pathways. Several different TRAF proteins (adaptor proteins) have been

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identified to serve as mediators of the signal transduction. CD40 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.

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