

Active Recombinant Human CD40 protein, Hi & Fc & Avi-tagged, Biotinylated

Cat. No. CD40-369H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human CD40 / TNFRSF5, His Tag & Fc Tag is expressed from human HEK293 cells. It contains AA Glu 21 - Arg 193 (Accession # AAH12419.1). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Species	Human
Source	HEK293
ProteinLength	Glu 21 - Arg 193
Description	CD40 is also known as TNFRSF5, Bp50, CDW40, MGC9013, TNFRSF5 and p50, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins, and 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. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects. CD40 contains 4 cysteine-rich repeats in the extracellular domain, and is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines.

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Predicted N Terminal	Glu 21
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Bio-activity	Immobilized Human CD40 Ligand, His Tag at 5 µg/mL (100 µL/well), can bind Biotinylated Human CD40, His Tag & Fc tag with a linear of 0.2-1 µg/mL.
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus. The Avi tag is inserted in-between the Fc and his tags. The protein has a calculated MW of 48 kDa. The protein migrates as 55-65 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Storage buffer	50 mM Tris, 100 mM Glycine, pH7.5
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	Powder, RT
Conjugation	Biotin

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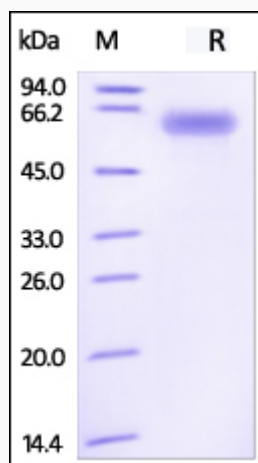
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GENE INFORMATION

Gene Name CD40 CD40 molecule [Homo sapiens (human)]**Official Symbol** CD40**Synonyms** p50; Bp50; CDW40; TNFRSF5; B cell surface antigen CD40; B cell-associated molecule; CD40 molecule, TNF receptor superfamily member 5; CD40L receptor**Gene ID** 958**mRNA Refseq** NM_001250.5**Protein Refseq** NP_001241.1**UniProt ID** P25942

SDS-PAGE



Biotinylated Human CD40, His Tag & Fc tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the

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protein is greater than 95%.

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