

Datasheet for ABIN6952262

CD40 Ligand Protein (CD40LG) (AA 116-261) (DYKDDDDK Tag,His tag)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	CD40 Ligand (CD40LG)
Protein Characteristics:	AA 116-261
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 Ligand protein is labelled with DYKDDDDK Tag,His tag.

Product Details

Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD40 Ligand (CD40LG Products)
Background:	CD40 ligand is also known as CD40L, CD154, TNFSF5 and T-cell antigen Gp39, is a single-pass type I I membrane protein which belongs to the TNF superfamily of molecules. CD40 ligand is expressed predominantly on activated CD4+ T lymphocytes, and also found in other types of cells, including platelets, mast cells, macrophages, basophils, NK cells, B lymphocytes, as well as non-haematopoietic cells (smooth muscle cells, endothelial cells, and epithelial cells).

Target Details

Although all monomeric, dimeric and trimeric forms of soluble CD40 ligand can bind to CD40, the trimeric form of soluble CD40 ligand has the most potent biological activity through oligomerization of cell surface CD40, a common feature of TNF receptor family members. CD40 ligand binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. In general, CD40 ligand plays the role of a costimulatory molecule and induces activation in APC in association with T cell receptor stimulation by MHC molecules on the APC. In total CD40 ligand has three binding partners: CD40, $\alpha 5\beta 1$ integrin and $\alpha IIb\beta 3$. CD40 ligand regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper IgM syndrome.

Molecular Weight:	49.9 kDa
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NCBI Accession:	NP_000065
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Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints
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Application Details

Restrictions:	For Research Use only
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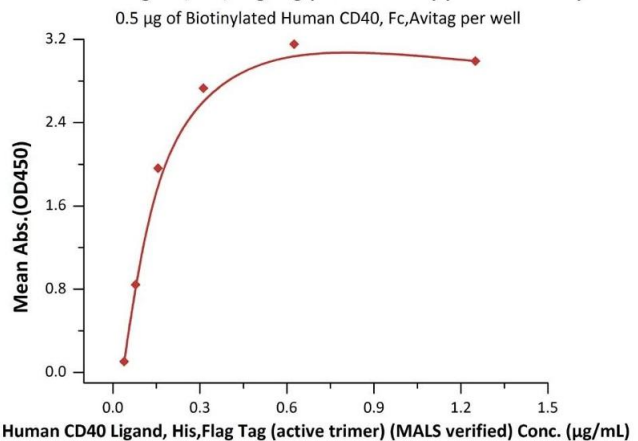
Handling

Format:	Lyophilized
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Buffer:	PBS, pH 7.4
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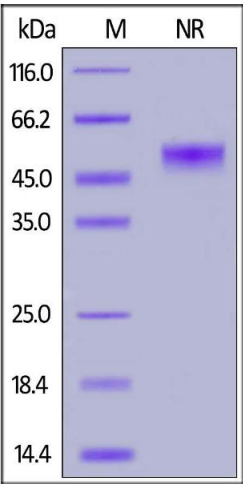
Storage:	-20 °C
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Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) ELISA



ELISA

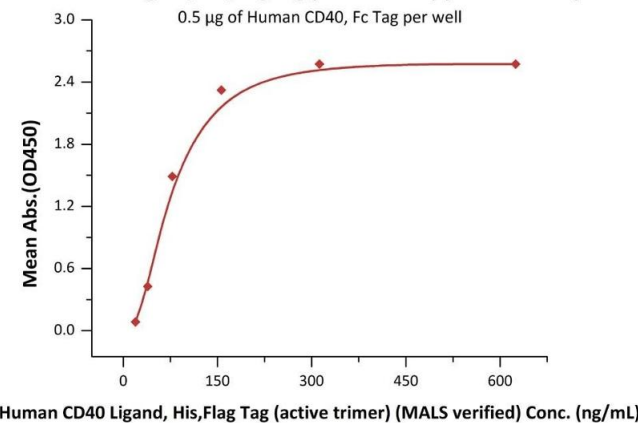
Image 1. Immobilized Biotinylated Human CD40, Fc,Avitag (ABIN5674593,ABIN6253701) at 5 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) (ABIN6950957,ABIN6952262) with a linear range of 0.039-1.25 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) on under ing (NR) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) ELISA



ELISA

Image 3. Immobilized Human CD40, Fc Tag (ABIN2180794,ABIN2859199) at 5 µg/mL (100 µL/well) can bind Human CD40 Ligand, His,Flag Tag (active trimer) (MALS verified) (ABIN6950957,ABIN6952262) with a linear range of 20-156 ng/mL (QC tested).