

Datasheet for ABIN7274173
CD40 Protein (CD40) (His tag)

3 Images

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Overview

Quantity:	100 µg
Target:	CD40
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD40 protein is labelled with His tag.

Product Details

Sequence:	Glu21-Arg193
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Cynomolgus CD40, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human CD40 Ligand (Trimer) , hFc Tag with the EC50 of 72.0ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	CD40, CD40L receptor, TNFRSF5, B cell surface antigen CD40, B-cell surface antigen CD40, Bp50B cell-associated molecule, CD40 antigen, CD40 Molecule, TNF receptor superfamily

Target Details

member 5, CD40 type II isoform, CDw40, MGC9013, nerve growth factor receptor-related B-lymphocyte activation molecule, p50, TNFRSF5CD40 antigen (TNF receptor superfamily member 5), tumor necrosis factor receptor superfamily member 5, tumor necrosis factor receptor superfamily, member 5, 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 Molecule is a potential target for cancer immunotherapy. There are number of completed and ongoing clinical trials where agonistic anti-CD40 monoclonal antibodies are employed to activate an anti-tumor T cell response via activation of dendritic cells.

Molecular Weight: 20.3 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

UniProt: [G7PG38](#)

Pathways: [NF-kappaB Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [M Phase](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Cancer Immune Checkpoints](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

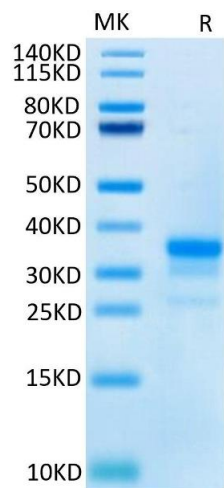
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C, -80 °C

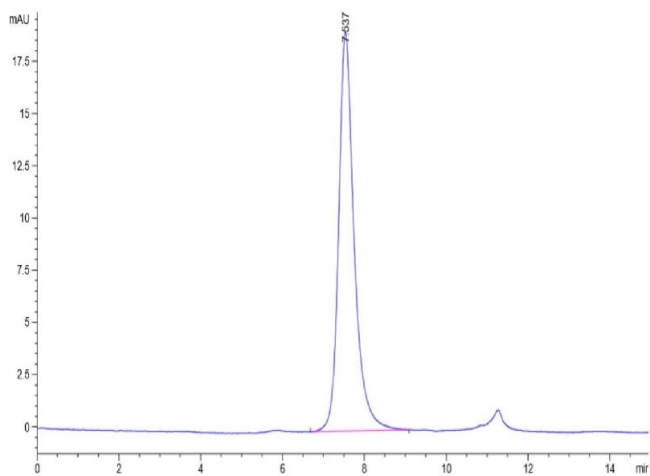
Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



SDS-PAGE

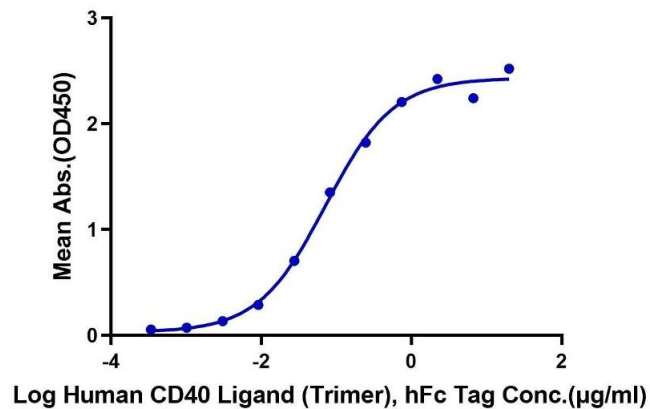
Image 1. Cynomolgus CD40 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus CD40 is greater than 95 % as determined by SEC-HPLC.

Cynomolgus CD40, His Tag ELISA
0.05µg Cynomolgus CD40, His Tag Per Well



ELISA

Image 3. Immobilized Cynomolgus CD40, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CD40 Ligand (Trimer) , hFc Tag with the EC50 of 72.0 ng/mL determined by ELISA.