

Datasheet for ABIN7274326

CD40 Ligand Protein (CD40LG) (Trimer) (Fc Tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD40 Ligand (CD40LG)
Protein Characteristics:	Trimer
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD40 Ligand protein is labelled with Fc Tag.

Product Details

Purpose:	Mouse CD40 Ligand/TNFSF5 Trimer Protein
Sequence:	Met112-Leu260
Characteristics:	Recombinant Mouse CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with monomeric hFc tag at the N-Terminus. It contains Met112-Leu260.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Mouse CD40, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 78.3ng/ml determined by ELISA. See testing image for detail.

Target Details

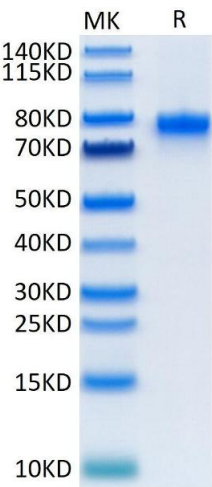
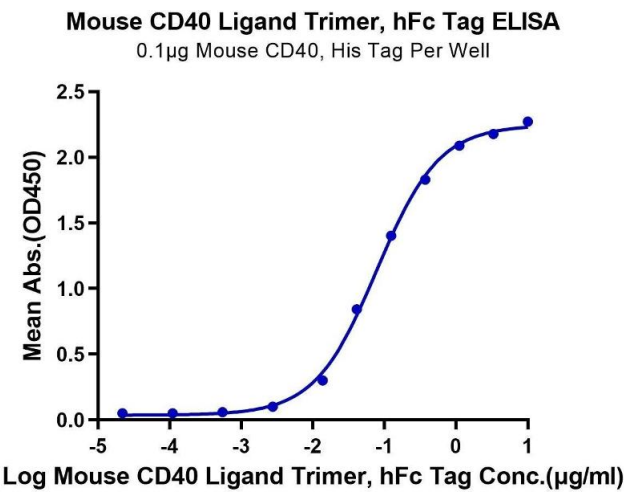
Target:	CD40 Ligand (CD40LG)
Alternative Name:	CD40 Ligand (CD40LG Products)
Background:	CD40 ligand or CD40L, also called CD154, is a protein that is primarily expressed on activated T cells and is a member of the TNF superfamily of molecules. It binds to CD40 (protein) on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. In total CD40L has three binding partners: CD40, $\alpha 5\beta 1$ integrin and $\alpha 11\beta 3$. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.
Molecular Weight:	75.6 kDa. Due to glycosylation, the protein migrates to 76-80 kDa based on Tris-Bis PAGE result.
UniProt:	P27548
Pathways:	NF-kappaB Signaling , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g/mL}$ is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μm filtered solution in PBS, 200 mM L-arginine (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



ELISA

Image 1. Immobilized Mouse CD40, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 78.3 ng/mL determined by ELISA.

SDS-PAGE

Image 2. Mouse CD40 Ligand Trimer on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .