

# Biotinylated Human CD40 Ligand/TNFSF5 Trimer Protein (Primary Amine Labeling)



Cat. No. CDL-HM140B

## Description

<b>Source</b>	Recombinant Biotinylated Human CD40 Ligand/TNFSF5 Trimer Protein (Primary Amine Labeling) is expressed from HEK293 with His tag and Flag tag at the N-Terminus. It contains Met113-Leu261.
<b>Accession</b>	P29965
<b>Molecular Weight</b>	The protein has a predicted MW of 52.4 kDa, Due to glycosylation, the protein migrates to 55-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

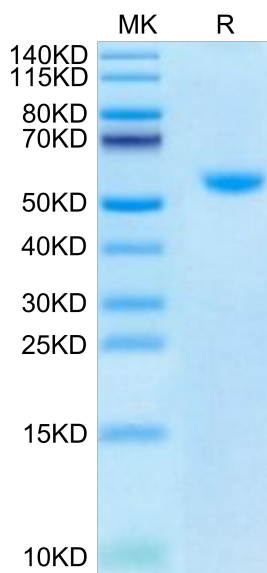
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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  $\alpha \text{IIb}\beta 3$ . CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

## Assay Data

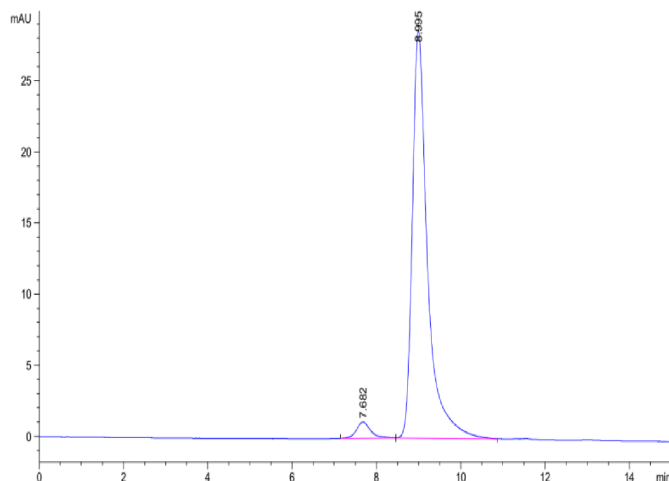
### Bis-Tris PAGE



Biotinylated Human CD40 Ligand Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

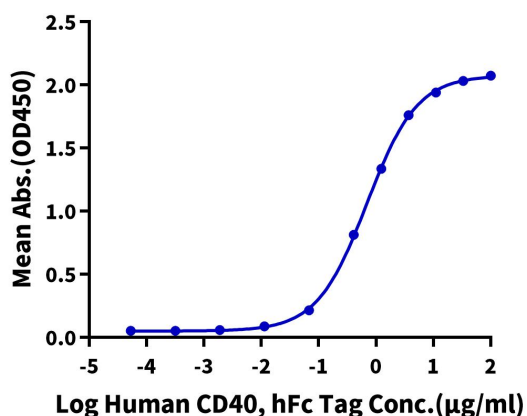


The purity of Biotinylated Human CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human CD40 Ligand (Trimer), His Tag ELISA**

0.2µg Biotinylated Human CD40 Ligand (Trimer), His Tag Per Well



Immobilized Biotinylated Human CD40 Ligand Trimer, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human CD40, hFc Tag with the EC50 of 0.70µg/ml determined by ELISA.