

# Mouse CD40 Ligand/TNFSF5 Trimer Protein

Cat. No. CDL-MM240

## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Mouse CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with monomeric hFc tag at the N-Terminus<br>It contains Met112-Leu260 trimer design. |
| <b>Accession</b>        | P27548  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 75.6 kDa. Due to glycosylation, the protein migrates to 76-80 kDa based on Bis-Tris PAGE result.                                |
| <b>Endotoxin</b>        | Less than 1 EU per $\mu\text{g}$ by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC   |

## Formulation and Storage

|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS, 200 mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b> | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.   |
| <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



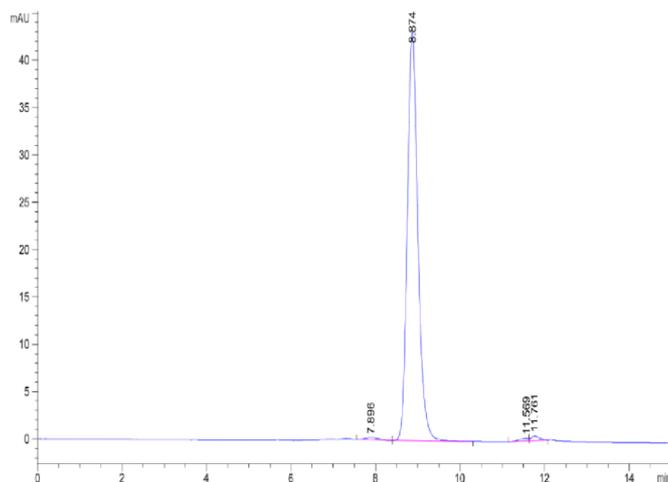
Mouse CD40 Ligand Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

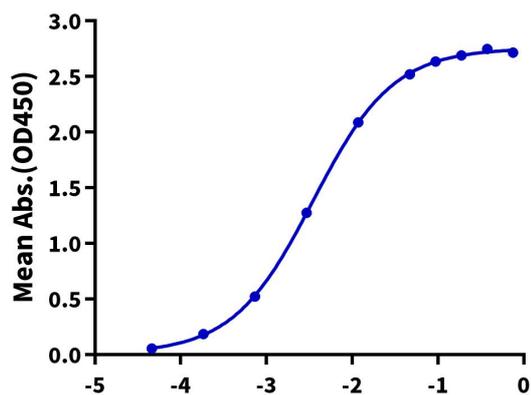


The purity of Mouse CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Mouse CD40 Ligand Trimer, hFc Tag ELISA

0.2µg Mouse CD40, His Tag Per Well



Immobilized Mouse CD40, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 3.5 ng/ml determined by ELISA.