

Human CD40 Ligand/TNFSF5 Trimer Protein

Cat. No. CDL-HM140

Description

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|-------------------------|---|
| Source | Recombinant Human CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with His tag and Flag tag at the N-Terminus. It contains Met113-Leu261. |
| Accession | P29965 |
| Molecular Weight | The protein has a predicted MW of 52.4 kDa, Due to glycosylation, the protein migrates to 55 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

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| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -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, α5β1 integrin and αIIbβ3. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

Assay Data

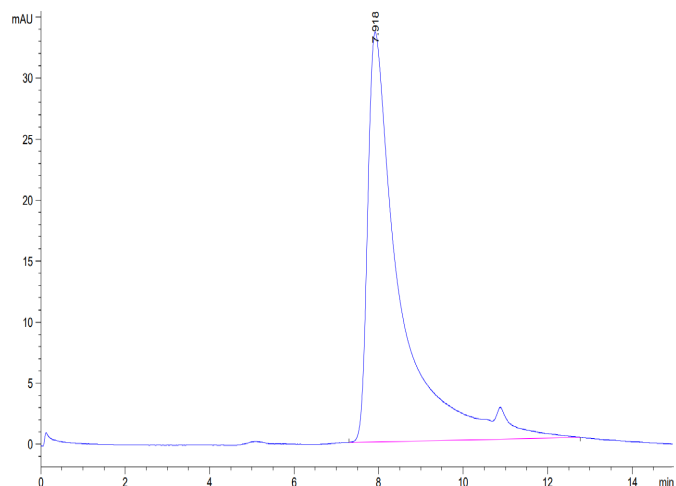
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

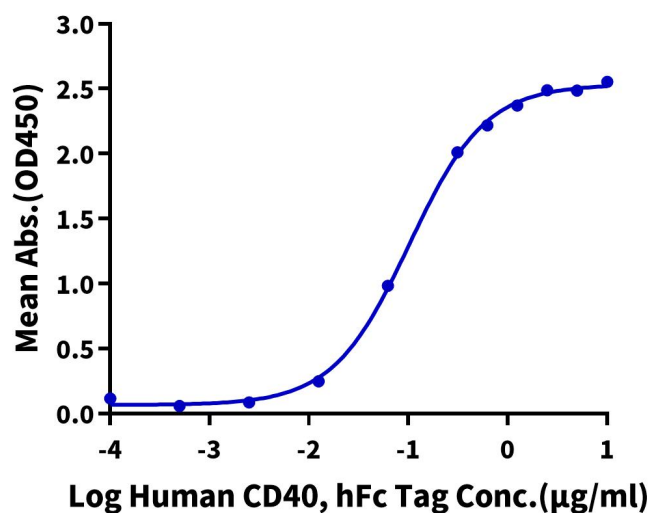


The purity of Human CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD40 Ligand Trimer, His Tag ELISA

0.5µg Human CD40 Ligand Trimer, His Tag Per Well



Immobilized Human CD40 Ligand Trimer, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human CD40, hFc Tag with the EC50 of 101.8ng/ml determined by ELISA.