

Biotinylated Human CD40 Ligand/TNFSF5 Trimer Protein

Cat. No. CDL-HM440B

Description

Source	Recombinant Biotinylated Human CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with His tag, Avi tag and Flag tag at the N-terminus. It contains Met113-Leu261.
Accession	P29965
Molecular Weight	The protein has a predicted MW of 54.51 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

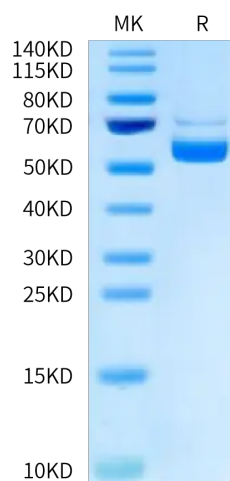
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 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.

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

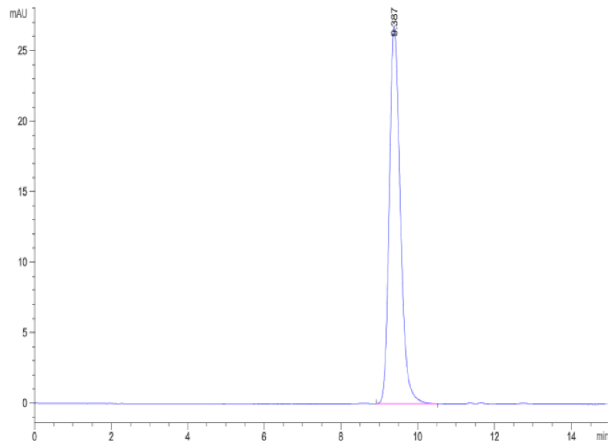
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



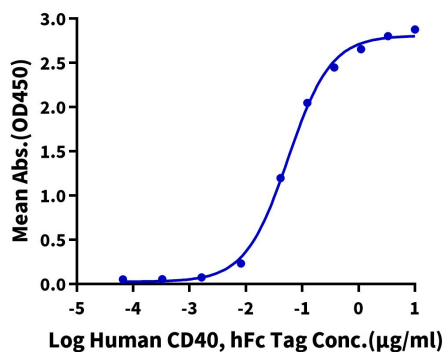
The purity of Biotinylated Human CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.

Assay Data

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 56.2ng/ml determined by ELISA.