

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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μ m 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 μ g/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, α 5 β 1 integrin and α IIb β 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



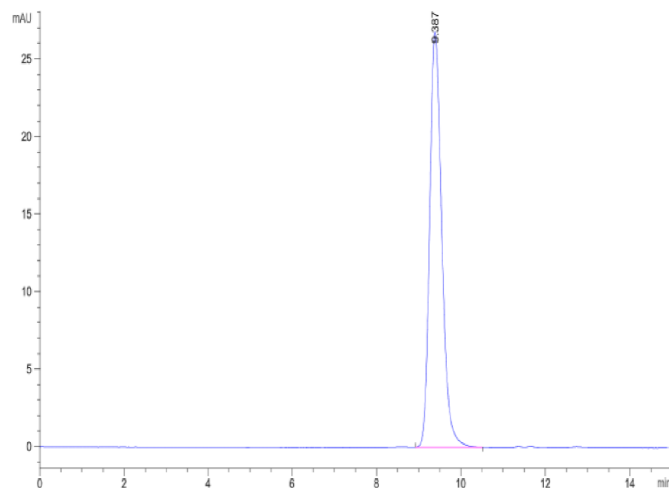
Biotinylated Human CD40 Ligand Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Biotinylated Human CD40 Ligand/TNFSF5 Trimer Protein

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Assay Data

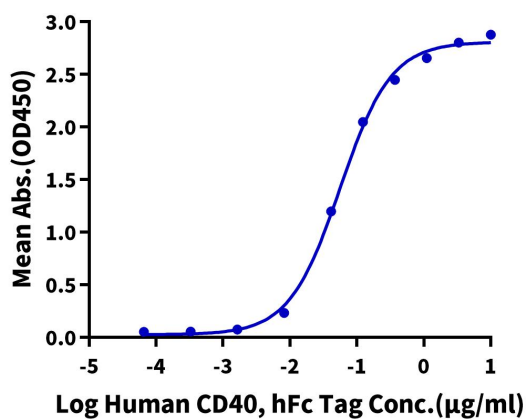


The purity of Biotinylated Human CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.

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 56.2ng/ml determined by ELISA.