

Biotinylated Human/Cynomolgus/Rhesus macaque CD40 Ligand/TNFSF5 Trimer Protein (Primary Amine Labeling)



Cat. No. CDL-HM140B

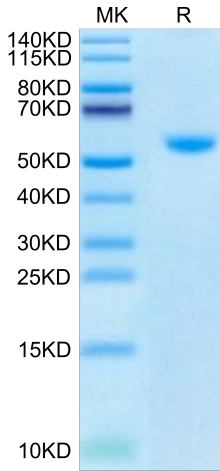
Description	
Source	Recombinant Biotinylated Human/Cynomolgus/Rhesus macaque CD40 Ligand/TNFSF5 Trimer Protein (Primary Amine Labeling) is expressed from HEK293 with His tag and Flag tag at the N-Terminus. It contains Met113-Leu261 trimer design.
Accession	P29965(Human) / G7Q1T4(Cynomolgus) / P63304(Rhesus macaque)
Molecular Weight	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.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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 α11bβ3. 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/Cynomolgus/Rhesus macaque CD40 Ligand Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

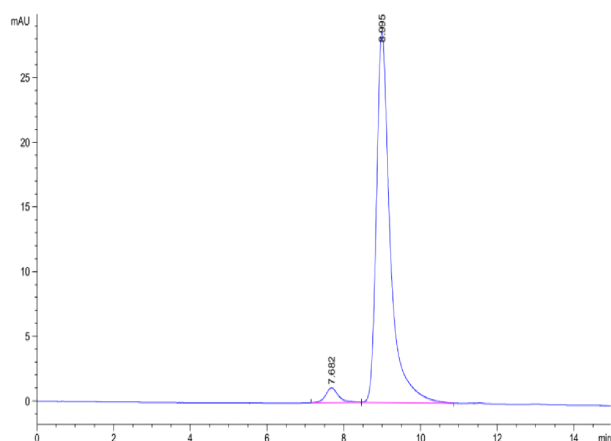
SEC-HPLC

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Assay Data



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

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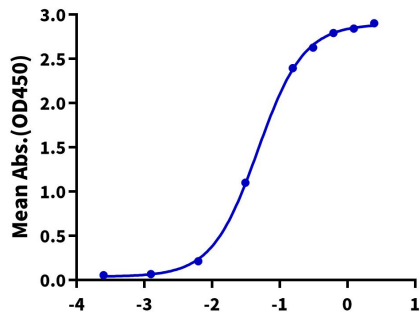
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Assay Data

ELISA Data

Biotinylated Human CD40 Ligand Trimer, His Tag ELISA

0.5µg Human CD40, hFc Tag Per Well



Immobilized Human CD40, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human/Cynomolgus/Rhesus macaque CD40 Ligand Trimer, His Tag with the EC50 of 47.6ng/ml determined by ELISA (QC Test).