

Mouse CD40 Ligand/TNFSF5 Trimer Protein, Ultra Low Endotoxin

Cat. No. CDL-MM240-UL

Description

Source	Recombinant Mouse CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with monomeric hFc tag at the N-Terminus It contains Met112-Leu260 trimer design.
Accession	P27548
Molecular Weight	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.
Endotoxin	Less than 0.01 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 0.22 µm filtered solution in PBS, 200 mM L-arginine (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 αIIbβ3. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

Assay Data

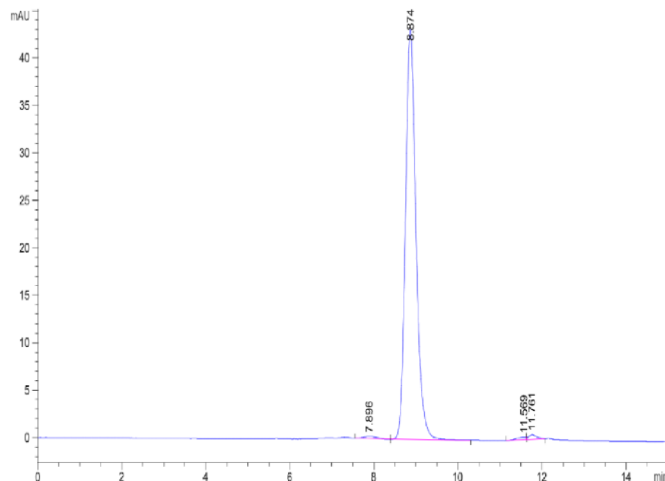
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

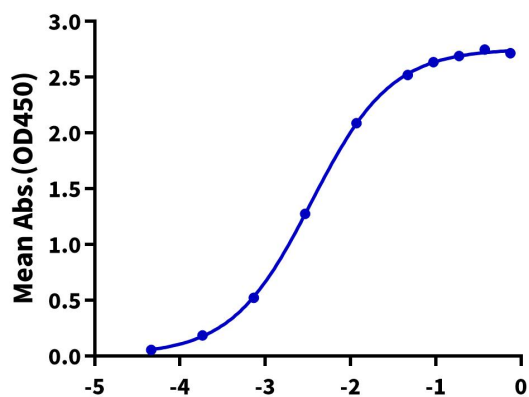


The purity of Mouse CD40 Ligand Trimer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Mouse CD40 Ligand Trimer, hFc Tag ELISA

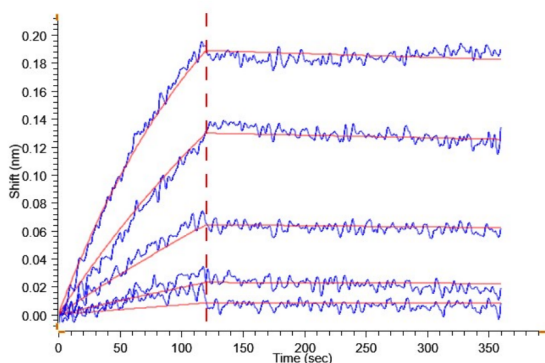
0.2µg Mouse CD40, His Tag Per Well



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.

Log Mouse CD40 Ligand Trimer, hFc Tag Conc.(µg/ml)

BLI Data



Loaded Mouse CD40, His Tag on Anti-His-Biosensor can bind Mouse CD40 Ligand (Trimer), monomeric hFc Tag with an affinity constant of 0.10 nM as determined in BLI assay .