

Mouse CD40 Ligand/TNFSF5 Protein

Cat. No. CDL-MM140



Description

Source	Recombinant Mouse CD40 Ligand/TNFSF5 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Met112-Leu260.
Accession	P27548
Molecular Weight	The protein has a predicted MW of 17.50 kDa. Due to glycosylation, the protein migrates to 20-25 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

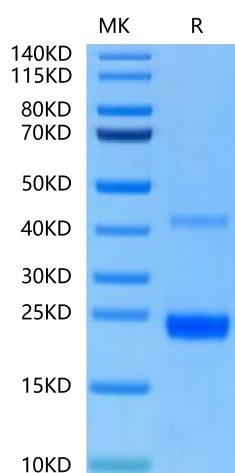
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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 $\alpha 1 \text{Ib} \beta 3$. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

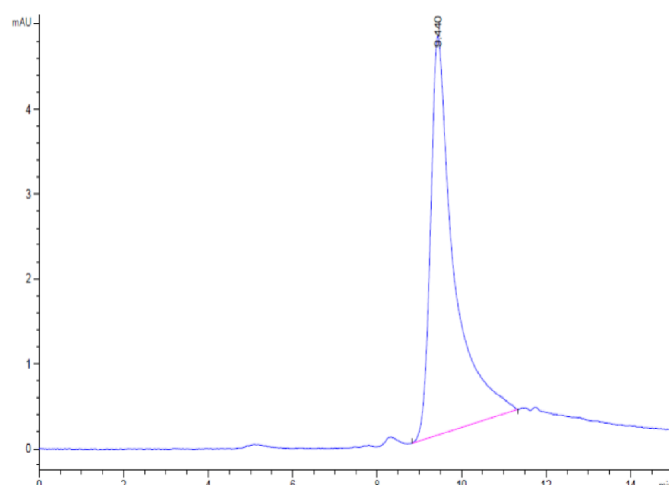
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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

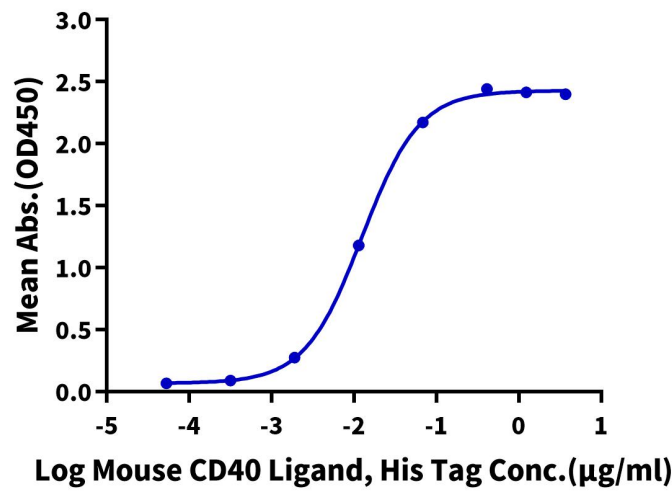
ELISA Data

For Research Use Only

Assay Data

Mouse CD40 Ligand, His Tag ELISA

0.1µg Human CD40, hFc Tag Per Well



Immobilized Human CD40, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse CD40 Ligand, His Tag with the EC50 of 12.5ng/ml determined by ELISA.