## Human CD40 Ligand/TNFSF5 Trimer Protein

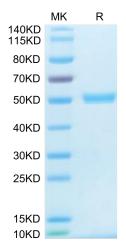
Cat. No. CDL-HM140



Description	
Source	Recombinant Human CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with His tag and Flag tag at the N-Terminus.
	It contains Met113-Leu261.
Accession	P29965
Molecular Weight	The protein has a predicted MW of 52.4 kDa, Due to glycosylation, the protein migrates to 55 kDa based on Bis- Tris PAGE result.
Endotoxin	Less than 1EU 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	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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, $\alpha$ 5 $\beta$ 1 integrin and $\alpha$ 1lb $\beta$ 3. CD154 acts as a costimulatory molecule and is particularly important on a subset of T cells called T follicular helper cells.

### **Assay Data**

### **Bis-Tris PAGE**



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

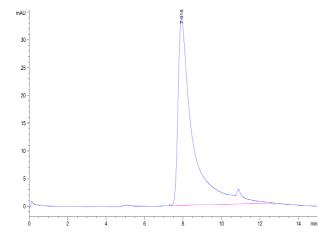
**SEC-HPLC** 

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# KAGTUS

## **Assay Data**



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

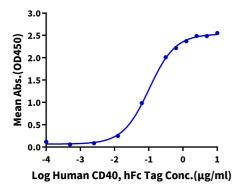
## KAGTUS

### **Assay Data**

#### **ELISA Data**

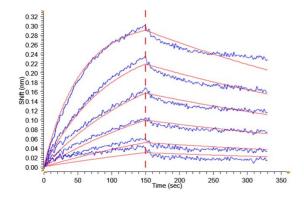
### **Human CD40 Ligand Trimer, His Tag ELISA**

0.5μg Human CD40 Ligand Trimer, His Tag Per Well



Immobilized Human CD40 Ligand Trimer, His Tag at  $5\mu g/ml$  ( $100\mu l/Well$ ) on the plate. Dose response curve for Human CD40, hFc Tag with the EC50 of 101.8ng/ml determined by ELISA.

#### **BLI Data**



Loaded Human CD40, hFc Tag on ProA-Biosensor can bind Human CD40 Ligand (Trimer), His-Flag Tag with an affinity constant of 0.23  $\mu$ M as determined in BLI assay (Gator® Prime).