#### Human CD40 Ligand/TNFSF5 Trimer Protein





Description	
Source	Recombinant Human CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 with monomeric hFc tag at the N-Terminus.
	It contains Met113-Leu261.
Accession	P29965
Molecular Weight	The protein has a predicted MW of 74.9 kDa. Due to glycosylation, the protein migrates to 75-80 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	d Storage

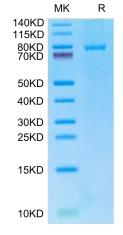
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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, 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. .

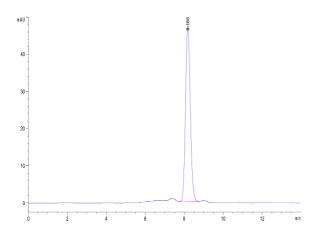
#### **Assay Data**

#### **Bis-Tris PAGE**



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

#### **SEC-HPLC**



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

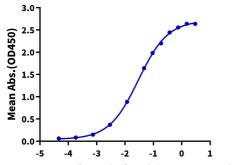
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#### **Assay Data**

#### **ELISA Data**

#### Human CD40 Ligand (Trimer), hFc Tag ELISA

0.2μg Human CD40, His Tag Per Well



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

# Immobilized Human CD40, His Tag at $2\mu g/ml$ (100 $\mu l/Well$ ) on the plate. Dose response curve for Human CD40 Ligand (Trimer), hFc Tag with the EC50 of 29.8ng/ml determined by ELISA (QC Test).

#### **Blocking Data**

#### Inhibition of Human CD40 Ligand (Trimer) and CD40 Binding 0.5µg Human CD40 Ligand (Trimer), hFc Tag Per Well

Log Anti-CD40 Antibody, hFc Tag Conc.(µg/ml)

Serial dilutions of Anti-CD40 Antibody were added into Biotinylated Human CD40, His Tag: Human CD40 Ligand (Trimer), hFc Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 2.0ug/ml.