

Recombinant Human CD40L

Catalog No: C011

Description	Recombinant Human CD40 Ligand is produced by our E. coli expression system and the target gene encoding Met113-Leu261 is expressed.	
Source	E. coli	
Alternative name	CD40 Ligand; CD40-L; T-Cell Antigen Gp39; TNF-Related Activation Protein; TRAP; Tumor Necrosis Factor Ligand Superfamily Member 5; CD154; CD40LG; CD40L; TNFSF5; TRAP	
Accession No.	P29965	
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 200mM NaCl, 0.1mM EDTA, pH 7.0.	
Quality Control	Bioactivity*	Measured by the dose-dependent stimulation of IL-12 & IL-8 induction by PMB cells.
		ED50 is 5-10 ng/ml.
	Purity:	Greater than 95% as determined by reducing SDS-PAGE.
	Endotoxin:	Less than 0.1 ng/µg (1 IEU/µg).
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.	
	It is not recommended to reconstitute to a concentration less than 100µg/ml.	
	Dissolve the lyophilized protein in distilled water.	
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.	
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Amino Acid Sequence	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNLVTLENGKQLTVKRQGLYYIYAQVTFC SNREASSQAPFIASLCLK SPGRFERILLRAANTHSSAKPCGQSQSIHLGGVFELQPGASVFNVTDPQSQVSHGTGFTSFGLLKL	
Background	CD40 Ligand (CD40LG) is a type II transmembrane glycoprotein that belongs to the TNF superfamily. Like other TNF superfamily members, CD40LG exists as a trimer in membrane bound and soluble form, both of which are bioactive. CD40LG is a ligand for CD40; its ligation also initiates signal transduction in CD40LG expressing cells. CD40LG is a differentiation antigen that is expressed on the surface of T-cells. It stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40LG has been shown to induce cytokine production and tumoricidal activity in peripheral blood monocytes. It also co-stimulates proliferation of activated T-cells and this is accompanied by the production of IFN-gamma, TNF-alpha, and IL2.	

SDS-PAGE

