

CD40LG

Recombinant Human soluble CD40 Ligand

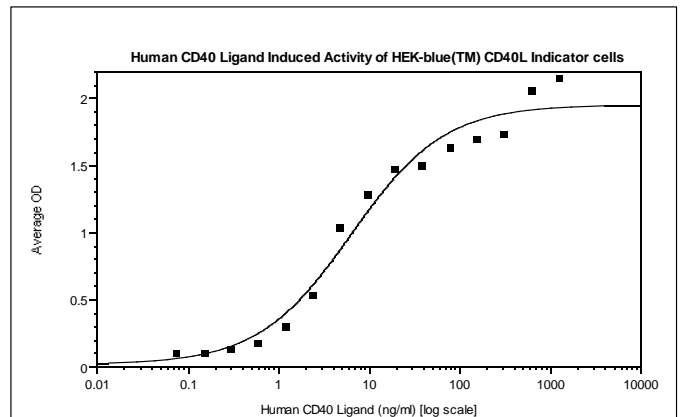
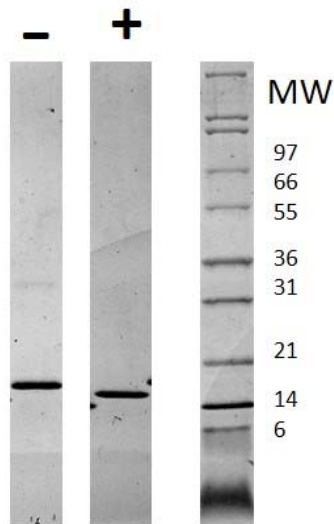
Catalog No.	CRC800A CRC800B CRC800C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	IGM, IMD3, TRAP, gp39, CD154, CD40L, HIGM1, T-BAM, TNFSF5		
Description:	<p>CD40 Ligand (CD40L) is a 261 amino acid type II transmembrane glycoprotein belonging to the TNF family. CD40L is expressed predominantly on activated CD4+ T lymphocytes, and also found in other types of cells, like NK cells, mast cells, basophils and eosinophils. Soluble CD40L is released from platelets. Soluble CD40L can bind its receptor, CD40, in monomeric, dimeric and trimeric forms, though the trimeric form of soluble CD40L has the most potent biological activity. CD40, is expressed on B lymphocytes, monocytes, dendritic cells and thymic epithelium. CD40L-CD40 interaction stimulates B cell proliferation, isotype switching, and secretion of all immunoglobulin isotypes in the presence of cytokines. It also plays important roles in monocyte activation and dendritic cell maturation.</p> <p>Recombinant human soluble CD40 Ligand is a non-glycosylated polypeptide chain containing 149 amino acids.</p>		
Gene ID:	959		
Protein Accession No:	P29965		
Source:	<i>E. coli</i>		
Molecular Weight:	16.3 kDa		
Formulation:	Lyophilized from a sterile-filtered solution in 10 mM sodium phosphate, pH 7.5		
Purity:	>95.0% by HPLC and SDS-PAGE		
Endotoxin Level:	≤1 U/µg of protein by kinetic LAL analysis (50% confidence range).		
Biological Activity:	Serial dilutions of Human CD40 Ligand were added to HEK-blue CD40L responsive indicator cells. Cells were analyzed and the linear portion of the curve was used to calculate the ED50.		
Specific Activity:	Typically 2 x 10 ⁵ units/mg (by IL-8 production) or 1 x 10 ³ units/mg (by PBMC proliferation).		
Amino Acid Sequence:	MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCNSRE ASSQAPFIAS LWLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFNVT DPSQVSHGTG FTSFGLLKL		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.		



Storage & Stability:

Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. **Avoid repeated freeze-thaw cycles.**

Figure 1:
1 µg in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.