

Cd40lg

Recombinant Mouse CD40 Ligand

Catalog No.	CRC803A CRC803B CRC803C CRC803D	Quantity:	5 µg 25 µg 1.0 mg 100 µg
Alternate Names:	TNFSF5, TRAP, CD154, gp39, T-BAM		
Description	CD40 Ligand (CD40-L), or CD154, is a membrane glycoprotein and differentiation antigen expressed on the surface of T cells. The CD40 Ligand stimulates B cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40 Ligand 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 IL-2. Recombinant mouse CD40 Ligand is a non-glycosylated protein, containing the 149 C-terminal amino acids.		
Physical Appearance:	Sterile filtered white lyophilized (freeze-dried) powder.		
Gene ID:	21947		
Protein Accession No.:	P27548		
Source:	<i>E. coli</i>		
Molecular Weight:	16.4 kDa		
Formulation:	Recombinant mouse CD40 Ligand is lyophilized from 10 mM Na ₂ PO ₄ , pH 7.5 and 0.1 M Arginine.		
Purity:	> 98.0% as determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm		
Endotoxin Level:	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.		
Biological Activity:	The activity is determined by the dose production of IL-8 by human PBMCs and is typically 5-10 ng/mL.		
Amino Acid Sequence:	MQRGDEDPQI AAHVVSEANS NAASVLQWAK KGYITMKSNI VMLENGKQLT VKREGLYYVY TQVTFCSNRE PSSQRPFIVG LWLKPSSGSE RILLKAANTH SSSQLCEQQS VHLGGVFELQ AGASVFNVT EASQVIHRVG FSSFGLLKL		
Reconstitution:	Centrifuge vial prior to opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.		
Storage & Stability:	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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