

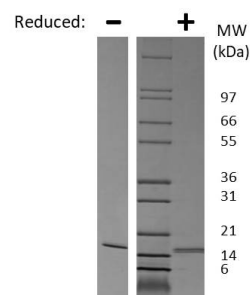
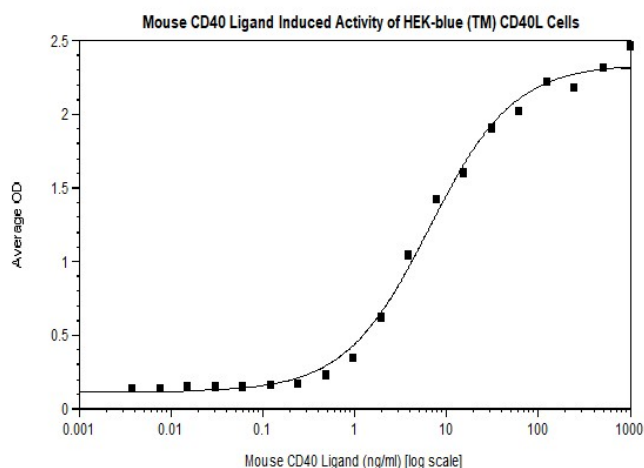
Cd40Ig Recombinant Mouse CD40 Ligand Animal Free

Catalog No.	CRC803A-AF CRC803B-AF CRC803C-AF CRC803D-AF	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> , produced without animal products in an animal free facility		
Molecular Weight:	16.4 kDa		
Formulation:	Lyophilized from sterile filtered 10 mM Na ₂ PO ₄ , 100 mM Arginine, pH 8.0.		
Purity:	≥ 95.0% as determined by HPLC, Reducing and Non-reducing SDS-PAGE.		
Endotoxin Level:	≤ 1 EU/µg, by kinetic LAL analysis.		
Biological Activity:	ED ₅₀ ≤ 50 ng/ml, determined by the activity of HEK-Blue™ CD40L cells. Typical ED ₅₀ for dose-dependent induction of IL-8 by human PBMCs and is 1-10 ng/mL.		
Specific Activity:	≥ 2.0 x 10 ⁴ units/mg with HEK-Blue™ CD40L cells.		
Amino Acid Sequence:	MQRGDEDPQI AAHVSEANS NAASVLQWAK KGYTMTKSNL 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 containing a carrier protein such as 0.1 % BSA.		

Storage & Stability:

Stable, as supplied, short term at 2-8°C, at -20°C to -80°C 1 year. Upon reconstitution as directed, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C to -80°C for 3 months.

Avoid repeated freeze/thaw cycles.



Mouse CD40-Ligand Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse CD40-Ligand is predicted to have a MW of 16.4 kDa.

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



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