

Active Recombinant Mouse Cd40lg Protein

Cat. No. Cd40lg-2063M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse CD40 ligand (Cd40lg) without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Cytokine that acts as a ligand to CD40/TNFRSF5. Costimulates T-cell proliferation and cytokine production. Its cross-linking on T-cells generates a costimulatory signal which enhances the production of IL4 and IL10 in conjunction with the TCR/CD3 ligation and CD28 costimulation. Induces the activation of NF-kappa-B. Induces the activation of kinases MAPK8 and PAK2 in T-cells. Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL4. Involved in immunoglobulin class switching.
Bio-activity	Determined by its ability to induce TNF-alpha; and MIP-1alpha; production by murine splenocytes. The expected ED50 for this effect is > 0.1 µg/mL.
Molecular Mass	16.4 kDa
AA Sequence	MQRGDEDPQIAAHVVSEANSNAASVLQWAKKGYTMTKSNLVMLENGKQLTVKREG LYYVYTQVTFCNREPSSQRPFIVGLWLKPSSGSERILLKAANTHSSSQLCEQQSVH LGGVFELQAGASVFNVTESQVIHRVGFSSFGLLKL
Endotoxin	< 0.1 ng/µg of protein (< 1 EU/µg)

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Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 µM filtered solution of 20 mM pH 7.2 phosphate buffer, 100 mM NaCl, pH 7.2

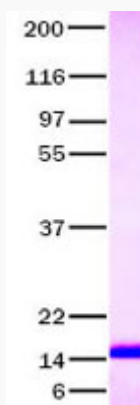
GENE INFORMATION

Gene Name	Cd40lg CD40 ligand [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd40lg
Synonyms	Cd40lg; CD40 ligand; IGM; IMD; gp3; Cd40; HIGM; IMD3; Ly-6; Ly62; T-BA; TRAP; Tnfs; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5; Tnlg8b; CD40 ligand; T-cell antigen Gp39; TNF-related activation protein; tumor necrosis factor ligand 8b; tumor necrosis factor ligand superfamily member 5
Gene ID	21947
mRNA Refseq	NM_011616
Protein Refseq	NP_035746
UniProt ID	P27548

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SDS-PAGE

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