

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	MQRGDEDPQIAAHVVSEANSNAASVLQWAKKGYITMKSNLVMLENGKQLTVKREG LYYVYTQVTFC SNREPSSQRPFIVGLWLKPSSG SERILLKAANTHSSSQLCEQQSVH LGGVFELQAGASVFNVT EASQVIHRVGFSSFGLLKL
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 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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