

## Active Recombinant Human CD40LG, HlgG1 Fc-tagged

Cat. No. CD40LG-33H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human CD40L (NP_000065.1) (Met113-Leu261) is fused to the N-terminus of the Fc portion of human IgG1 was expressed in CHO cell
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	113-261 a.a.
<b>Description</b>	The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome.?
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured in a cell proliferation assay using enriched human B cells in the presence of IL-4.
<b>Molecular Mass</b>	46 KDa (monomer)
<b>AA Sequence</b>	Met113-Leu261
<b>Endotoxin</b>	<0.06 eu/µg="" as="" determined="" by="" lal="">

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<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100µg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	CD40LG CD40 ligand [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	CD40LG
<b>Synonyms</b>	CD40LG; CD40 ligand; HIGM1, IMD3, TNFSF5, tumor necrosis factor (ligand) superfamily, member 5 (hyper IgM syndrome); CD40 antigen ligand; CD40L; CD154; gp39; hCD40L; hyper IgM syndrome; T B cell activating molecule; TNF related activation protein; TRAP; tumor necrosis factor (ligand) superfamily member 5; CD40-L; T-cell antigen Gp39; T-B cell-activating molecule; TNF-related activation protein; IGM; IMD3; HIGM1; T-BAM; TNFSF5;
<b>Gene ID</b>	959
<b>mRNA Refseq</b>	NM_000074
<b>Protein Refseq</b>	NP_000065
<b>MIM</b>	300386
<b>UniProt ID</b>	P29965

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<b>Chromosome Location</b>	Xq26
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem;
<b>Function</b>	CD40 receptor binding; cytokine activity; tumor necrosis factor receptor binding;

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