

## Active Recombinant Mouse Cd40Ig, FLAG-tagged

Cat. No. Cd40Ig-404M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Mouse CD40L (aa 115-260) is fused at the N-terminus to mouse ACRP30headless (aa 18-111) and a FLAG-tag.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>ProteinLength</b>	115-260;18-111 a.a.
<b>Description</b>	MegaCD40L is a high activity construct in which two trimeric CD40 ligands are artificially linked via the collagen domain of ACRP30. This construct very effectively simulates the natural membrane-assisted aggregation of CD40L in vivo. It provides a simple and equally potent alternative to CD40L+enhancer combinations. MegaCD40L has shown to suppress alum-induced IL-1beta; release and caspase-1 activation in a dose-, CD40- and time dependent manner, without affecting BMDM (Bone marrow-derived macrophages) viability. It also effectively suppressed the inflammasome function triggered by NLRP3 activators. The secretion of caspase-1 independent inflammatory mediators has been shown to be unaltered or even enhanced.
<b>Form</b>	Lyophilized. Contains PBS.
<b>Bio-activity</b>	Induces B cells activation (as demonstrated by dose-dependent upregulation of CD86).
<b>Molecular Mass</b>	~35-40kDa

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<b>Purity</b>	≥95% (SDS-PAGE)
<b>Stability</b>	Stable for at least 6 months after receipt when stored at -20°C.
<b>Storage</b>	Short Term Storage: +4°C; Long Term Storage: -20°C. After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.
<b>Concentration</b>	0.1mg/ml after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	Cd40lg CD40 ligand [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Cd40lg
<b>Synonyms</b>	CD40LG; CD40 ligand; T-cell antigen Gp39; TNF-related activation protein; tumor necrosis factor ligand superfamily member 5; IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5;
<b>Gene ID</b>	<a href="#">21947</a>
<b>mRNA Refseq</b>	<a href="#">NM_011616</a>
<b>Protein Refseq</b>	<a href="#">NP_035746</a>
<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;

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**Function**

CD40 receptor binding; cytokine activity; tumor necrosis factor receptor binding;

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