

Active Recombinant Mouse Cd40lg, FLAG-tagged

Cat. No. Cd40lg-404M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CD40L (aa 115-260) is fused at the N-terminus to mouse ACRP30headless (aa 18-111) and a FLAG-tag.
Species	Mouse
Source	CHO
ProteinLength	115-260;18-111 a.a.
Description	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.
Form	Lyophilized. Contains PBS.
Bio-activity	Induces B cells activation (as demonstrated by dose-dependent upregulation of CD86).
Molecular Mass	~35-40kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	≥95% (SDS-PAGE)
Stability	Stable for at least 6 months after receipt when stored at -20°C.
Storage	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.
Concentration	0.1mg/ml after reconstitution.

GENE INFORMATION

Gene Name	Cd40lg CD40 ligand [<i>Mus musculus</i>]
Official Symbol	Cd40lg
Synonyms	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;
Gene ID	21947
mRNA Refseq	NM_011616
Protein Refseq	NP_035746
Pathway	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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