

Active Recombinant Rat Cd40lg, FLAG-tagged

Cat. No. Cd40lg-405R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat CD40L (aa 115-260) is fused at the N-terminus to mouse ACRP30headless (aa 18-111) and a FLAG-tag.
Species	Rat
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 been shown to suppress alum-induced IL-1 β 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 cell activation (as demonstrated by dose-dependent upregulation of CD86).
Molecular Mass	~35-40kDa

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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>Rattus norvegicus</i>]
Official Symbol	Cd40lg
Synonyms	CD40LG; CD40 ligand; CD40-L; CD40 ligand CD154; tumor necrosis factor ligand superfamily member 5; tumor necrosis factor (ligand) superfamily, member 5; Cd40l; Tnfsf5;
Gene ID	84349
mRNA Refseq	NM_053353
Protein Refseq	NP_445805
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; CD40 receptor binding; CD40 receptor binding; cytokine activity; molecular_function; tumor necrosis factor receptor binding;

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