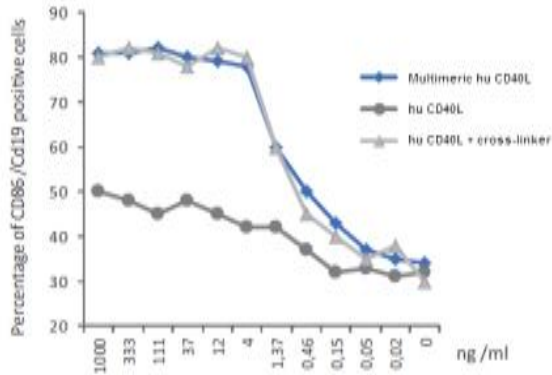


CD40LG

Recombinant Human Multimeric CD40L

Catalog No.	CRH024	Quantity:	10 µg
Alternate Names:	CD154, CD40L, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39, hCD40L		
Description:	Recombinant human multimeric CD40L is a high activity construct in which two trimeric CD40 ligands are artificially linked via the collagen domain of mouse ACRP30 (adipogen, Adipoq). This construct very effectively simulates the natural membrane-assisted aggregation of CD40L in vivo. It provides a simple and equally potent alternative to using a combination of CD40L plus an enhancer to increase efficacy. Multimeric CD40L has been shown to suppress alum-induced IL-1β release and caspase-1 activation in a CD40-, dose-, and time-dependent manner without affecting BMDM 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.		
Concentration:	0.1 mg/ml after reconstitution		
Gene ID:	959		
UniProt ID:	P29965 CD40L Q60994 ACRP30 mouse precursor		
Source:	CHO cells		
Molecular Weight:	~35-40 kDa by SDS-PAGE		
Formulation:	Lyophilized solution containing PBS.		
Purity:	≥95% (SDS-PAGE)		
Endotoxin Level:	<0.01 EU/µg purified protein as determined by LAL test (Lonza).		
Specificity:	Binds to human CD40		
Biological Activity:	Induces B cells activation as demonstrated by the dose-dependent upregulation of CD86, ED50 <1 ng/ml.		
Amino Acid Sequence:	Human CD40L aa 116-261 is fused at the N-terminus to mouse collagen domain of ACRP30 (aa18-111) and a FLAG tag.		
Reconstitution:	Reconstitute with 100µl sterile water.		
Application Methods:	Activation Methods for Fig 1: PBL cells were incubated in 96-well plates (2 x 10 ⁵ cells/well in 100 µl RPMI supplemented with 10% FCS) for 24 hours at 37°C with the indicated concentration of Recombinant Human Multimeric CD40L or recombinant human CD40L in the presence or absence of 1 µg/ml of a cross linking anti-FLAG mAb. Cells were washed with PBS and stained with 2 µl each CD86-PE and CD19-FITC in 50µl FACS buffer (PBS, 5% fetal calf serum, 0.02% sodium azide) for 20 min. at 4°C in the dark. After two washes in FACS buffer, samples were then analyzed by flow cytometry.		
Storage & Stability:	Store at -20°C to -80°C . After reconstitution, prepare aliquots and store at -20°C to -80° C. PBS containing at least 0.1% BSA or HSA should be used for further dilution. Avoid repeated freeze-thaw cycles.		

Fig. 1. Recombinant Human Multimeric CD40L increases B cell activation as shown by expression of CD86 on B cells without the need for a second CD40L cross-linking reagent (anti-FLAG mAb).



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