

# Recombinant mouse CD40 Ligand/CD40LG protein

Catalog Number: ATGP3200

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

112-260aa

### UniProt No.

P27548

### NCBI Accession No.

NP\_035746

### Alternative Names

CD40 ligand, CD40-L, CD40L, T-cell antigen Gp39, TNF-related activation protein, TRAP, Tumor necrosis factor ligand superfamily member 5, TNFSF5, CD154, Hyper-IgM syndrome, HIGM1, T-B cell-activating molecule, T-BAM

## PRODUCT SPECIFICATION

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### Molecular Weight

17.5 kDa (158aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD40LG, also known as CD40 ligand, belongs to the tumor necrosis factor family. This protein binds to TNFRSF5. CD40LG mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. CD40 ligand dysregulation on T cells and antigen presenting cells contributes to the immune deficiency

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associated with HIV infection and AIDS. Recombinant mouse CD40LG, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADL>MQRGDED PQIAAHVVSE ANSNAASVLQ WAKKGYTMMK SNLVMLENGK QLTVKREGLY YVYTQVTFCSS  
NREPSSQRPF IVGLWLKPSS GSERILLKAA NTHSSSQLCE QQSVHLGGVF ELQAGASVFFV NVTEASQVIH RVGFSSFGLL  
KL<HHHHHH>

## General References

Price JD et al., (2014) J. Leukoc. Biol. 95(2):325-336.

Williams JA et al., (2014) J. Immunol. 192(2):630-640.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

