## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

113-261aa
UniProt No.
P29965

## NCBI Accession No.

NP_000065

## 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

## Molecular Weight

18.3 kDa (169aa) confirmed by MALDI-TOF

## Concentration

$0.5 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer (pH 8.0) containing $1 \mathrm{mM} \mathrm{DTT} 40 \$,$% glycerol, 0.2 \mathrm{M} \mathrm{NaCl}$

## Purity

> 95\% by SDS-PAGE

## Endotoxin level

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

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

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

## BACKGROUND

## Description

CD40 ligand, also known as CD40LG, is a member of the TNF superfamily and is expressed on activated T cells. CD40LG is expressed as a soluble cytokine as well as a homotrimeric type II transmembrane protein. It has been reported to be important for $B$ cell costimulation following binding of its receptor, CD40. Mutations in the gene

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## Recombinant human CD40 Ligand/CD40LG protein

Catalog Number: ATGP1017
encoding for CD154 are implicated in hyper-IgM immunodeficiency syndrome type 1. Recombinant human CD40LG protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCSNRE ASSQAPFIAS LCLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFVNVT DPSQVSHGTG FTSFGLLKL

## General References

Gordon J., et al. (1995) Blood Rev. 9:53-56.
Cheng G., et al. (1995) Science. 267:1494-1498.

## DATA

## SDS-PAGE



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

