Recombinant human CD40 Ligand/CD40LG protein

Catalog Number: ATGP1017

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
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl

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

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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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

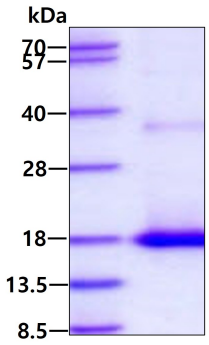
<MGSSHHHHHH SSGLVPRGSH> MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCSNRE ASSQAPFIAS LCLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFVNVT DPSQVSHGTG FTSFGLLKL

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.