

Recombinant human CAMLG protein

Catalog Number: ATGP2226

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-189aa

UniProt No.

P49069

NCBI Accession No.

NP_001736.1

Alternative Names

Calcium signal-modulating cyclophilin ligand, CAML

PRODUCT SPECIFICATION

Molecular Weight

23.2 kDa (212aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Purity

> 85% by SDS-PAGE

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

The immunosuppressant drug cyclosporin A blocks a calcium-dependent signal from the T-cell receptor (TCR) that normally leads to T-cell activation. When bound to cyclophilin B, cyclosporin A binds and inactivates the key signaling intermediate calcineurin. CAMLG functions similarly to cyclosporin A, binding to cyclophilin B and acting downstream of the TCR and upstream of calcineurin by causing an influx of calcium. This integral membrane protein appears to be a new participant in the calcium signal transduction pathway, implicating cyclophilin B in calcium signaling, even in the absence of cyclosporin. Recombinant human CAMLG protein, fused

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

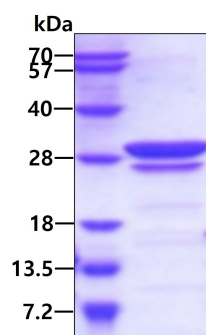
<MGSSHHHHH SSGLVPRGSH MGS>MESMAVA TDGGERPGVP AGSGLSASQR RAELRRRKLK MNSEQRINRI
MGFHRPGSGA EEESQTKSKQ QSDSKLNSLS VPSVSKRVVL GDSVSTGTTD QQGGVAEVKG TQLGDKLDSF IKPPECSSDV
NLELRQRNRG DLTADSVQRG SRHGLEQYLS RFEEAMKLRK QLISEKPSQE DGNTTEEFDS FR

General References

Bram RJ., et al. (1996). Genomics 31 (2): 257-60.

DATA

SDS-PAGE



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