

Recombinant human Calmodulin 2/CALM2 protein

Catalog Number: CAM0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-149aa

UniProt No.

P0DP24

NCBI Accession No.

NP_001734

Alternative Names

PHKD, CAMII, PHKD2, Calmodulin 2, CALM 2, Calmodulin2, CAM II, LP7057 protein, PHKD 2, Phosphorylase kinase delta, Calmodulin-2, CALM2

PRODUCT SPECIFICATION

Molecular Weight

16 kDa (149aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5)

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

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

Calmodulin has been known to act as an intracellular calcium sensor protein. When the intracellular Ca^{2+} concentration increases, calmodulin can bind up to four Ca^{2+} , changing its conformation and regulating cellular functions such as activation or inhibition of a large number of enzymes, ion channels, and receptors. Recombinant human Calmodulin was expressed in E. coli and purified by conventional chromatography techniques.

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Amino acid Sequence

MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT
DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE EFVQMMTAK

General References

Zhang M., et al. (1998). Biochem Cell Biol. 76(2-3):313-23

James.P., et al. (1995). Trend Biochem. Sci. 20: 38-42

DATA

SDS-PAGE

(kDa)

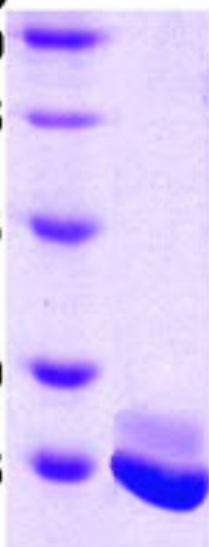
50

35

25

20

15



15% SDS-PAGE (3ug)

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