

Recombinant Human Calmodulin 2 (Phosphorylase Kinase, Delta)

Cat. No. CALM2-342H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Calmodulin was expressed in E.coli and purified by conventional chromatography techniques (149 aa, 16 kDa).
Species	Human
Source	E.coli
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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5).
Molecular Weight	16 kDa (149 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE EFVQMMTAK

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

CALM2

Synonyms

CALM2; calmodulin 2 (phosphorylase kinase, delta); CALM; CAM; CAM1; CAM2; CAM3; CAMB; CAMC; CAMII; CAMIII; CaM; FLJ99410; PHKD; PHKD2; CALM2 calmodulin 2 (phosphorylase kinase, delta); LP7057 protein; calmodulin 2; phosphorylase kinase delta.

Gene ID

805

mRNA Refseq

NM_001743.4

Protein Refseq

NP_001734.1

MIM

114182

UniProt ID

P62158

**Chromosome
Location**

2p21

Pathway

Calcium signaling pathway; Glioma; GnRH signaling pathway; Huntington's disease; Insulin signaling pathway; Long-term potentiation; Melanogenesis; Olfactory transduction; Phosphatidylinositol signaling system.

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PDBrendering based
on 1a29. Available
structures: 1a29, 1ahr, 1a



71,1fw

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