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## AR50020PU-S Human Calmodulin (1-149) (recombinant) - Purified

Alternate names: CALM, CALM1, CAM, CAM1

Quantity: 0.1 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: Calmodulin has been known to act as an intracellular calcium sensor protein. When

the intracellular Ca2+ concentration increases, calmodulin can bind up to four Ca2+, changing its conformation and regulating cellular functions such as activation or

inhibition of a large number of enzymes, ion channels, and receptors.

Uniprot ID: <u>P62158</u>

NCBI: <u>NP\_001734</u>

GeneID: 801
Species: Human
Source: E. coli

Format: State: Liquid purified protein

Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris pH 7.5

**Description:** Recombinant human Calmodulin was expressed in E.coli and purified by conventional

chromatography techniques.

AA Sequence:

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

EVDEMIREAD IDGDGQVNYE EFVQMMTAK

Molecular weight: 16 kDa (149aa), confirmed by MALDI-TOF.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

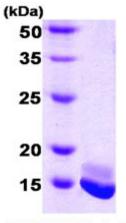
General Readings: 1. Zhang M., et al. (1998). Biochem Cell Biol. 76(2-3):313-23.

2. James P, Vorherr T, Carafoli E. Calmodulin-binding domains: just two faced or multi-

faceted? Trends Biochem Sci. 1995 Jan; 20(1):38-42. PubMed PMID: 7878743.



Pictures:



15% SDS-PAGE (3ug)