

**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 Ca<sup>2+</sup> concentration increases, calmodulin can bind up to four Ca<sup>2+</sup>, changing its conformation and regulating cellular functions such as activation or inhibition of a large number of enzymes, ion channels, and receptors.

**Uniprot ID:**[P62158](#)**NCBI:**[NP\\_001734](#)**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:

