

## Product datasheet for **AR50020PU-S**

### Calmodulin (1-149) (recombinant) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Calmodulin (1-149) (recombinant) human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTAEELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDDEMIREAD IDGDGQVNYE EFVQMMTAK
<b>Predicted MW:</b>	16 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris pH 7.5
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human Calmodulin was expressed in E.coli and purified by conventional chromatography techniques.
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_008819</a>
<b>Locus ID:</b>	801
<b>UniProt ID:</b>	<a href="#">P62158</a> , <a href="#">P0DP23</a> , <a href="#">P0DP24</a> , <a href="#">P0DP25</a> , <a href="#">B4DJ51</a>
<b>Cytogenetics:</b>	14q32.11
<b>Synonyms:</b>	CALML2; caM; CAM2; CAM3; CAMB; CAMC; CAMI; CAMIII; CPVT4; DD132; LQT14; PHKD



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**Summary:**

This gene encodes one of three calmodulin proteins which are members of the EF-hand calcium-binding protein family. Calcium-induced activation of calmodulin regulates and modulates the function of cardiac ion channels. Two pseudogenes have been identified on chromosome 7 and X. Multiple transcript variants encoding different isoforms have been found for this gene. A missense mutation in the CALM1 gene has been associated with ventricular tachycardia. [provided by RefSeq, May 2020]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Alzheimer's disease, Calcium signaling pathway, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Phosphatidylinositol signaling system, Vascular smooth muscle contraction

**Product images:**