

## Calmodulin-2 Recombinant Protein | CALM2 recombinant protein

Recombinant Human Calmodulin-2

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA38626</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Calmodulin-2; Recombinant Human Calmodulin-2; CALM2 Human; Calmodulin-2 Human Recombinant; PHKD; CAMII; PHKD2; CALM2; CALM1 protein; Phosphorylase kinase delta; CALM2 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                             |
| Purity/Purification     | Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                            |
| Form/Format             | The CALM2 solution (1mg/ml) contains 20mM Tris-HCl, pH-7.5.<br>Sterile filtered colorless solution.                                                                                                                                                |
| Sequence                | MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL<br>TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE<br>EFVQMMTAK                                                                          |
| Sequence Length         | 113                                                                                                                                                                                                                                                |
| Preparation and Storage | Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles. |

### ADDITIONAL INFORMATION

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|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CALM2 recombinant protein | <p><b>Description:</b> Recombinant CALM2 produced in E Coli is a single, non-glycosylated polypeptide chain containing 149 amino acids and having a molecular mass of 16 kDa. CALM2 is purified by conventional chromatography techniques.</p> <p><b>Introduction:</b> Calmodulin-2 acts 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. P53 protein stimulates CALM2 gene expression in 041 cells. CALM-2 is involved in the processes of Ca(2+)-induced neuronal cell death and the blockage of calmodulin attenuates brain injury after cerebral ischemia. Calmodulin-2 mediates the control of a large number of enzymes and other proteins by ca(2+). among the enzymes to be stimulated by the calmodulin-ca(2+) complex are a number of protein kinases and phosphatases.</p> |
| Product Categories/Family for CALM2 recombinant protein   | <a href="#">Recombinant &amp; Natural Proteins</a> ; <a href="#">Recombinant Proteins</a> ; <a href="#">Calmodulin</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### NCBI AND UNIPROT INFORMATION

|                         |                                                |
|-------------------------|------------------------------------------------|
| NCBI GI #               | <a href="#">74760860</a>                       |
| UniProt Accession #     | <a href="#">Q96HY3</a>                         |
| Molecular Weight        | 12,876 Da                                      |
| NCBI Official Full Name | CALM1 protein (CALM2 protein) (LP7057 protein) |
| UniProt Protein Name    | CALM1 protein                                  |

|                    |              |
|--------------------|--------------|
| UniProt Gene Name  | CALM3        |
| UniProt Entry Name | Q96HY3_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/calm3-recombinant-protein-e-coli/38626>