

## 32-3401: CALM2 Recombinant Protein

**Alternative Name :** PHKD,CAMII,PHKD2,Calmodulin-2,CALM2,CALM1 protein,Phosphorylase kinase delta.

### Description

Source : Escherichia Coli. 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. Calmodulin-2 acts 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. 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.

### Product Info

<b>Amount :</b>	25 $\mu$ g
<b>Purification :</b>	Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The CALM2 solution (1mg/ml) contains 20mM Tris-HCl, pH-7.5.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.
<b>Amino Acid :</b>	MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGY ISAAELRHVM TNLGEKLTDE EVDEMIREAD IDGDGQVNYE EFVQMMTAK.

