

Active Recombinant Human Calmodulin 1 (Phosphorylase Kinase, Delta)

Cat. No. CALM1-88H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Calmodulin full length protein expressed in <i>E.coli</i> .
Species	Human
Source	E.coli
Description	Calmodulin (CaM) is an intracellular receptor protein for Ca ²⁺ -ions. It activates the myosin light chain kinase which is the catalyst of myosin phosphorylation. CaM participates in the activation of enzymes such as cyclic nucleotide- dependent phosphodiesterase, calcineurin, ATPase, Myosin Light Chain Kinases, and CAM kinase.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 90% as determined by SDS-PAGE.
Formulation	Calmodulin at 1mg/ml in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.
Activity	Assayed for calcium binding and activation of MLCK.
Applications	• ELISA • Inhibition Assays • Western Blotting
Storage	Store vial at -20°C to -80°C. When stored at the recommended temperature, this

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protein is stable for 12 months. Please prevent freeze-thaw cycles.

Full Length Full L.

GENE INFORMATION

Gene Name CALM1 calmodulin 1 (phosphorylase kinase, delta) [Homo sapiens]

Synonyms CALM1; calmodulin 1 (phosphorylase kinase, delta); CAMI; PHKD; DD132; CALML2; calmodulin 1; phosphorylase kinase, delta subunit; EC 2.7.11.19; CALMCAM; CAM1; CAM2; CAM3; CAMB; CAMC; CAMIII; CaM

Gene ID 801

mRNA Refseq NM_001166106

Protein Refseq NP_001159578

MIM 114180

UniProt ID P62158

Chromosome Location 14q24-q31

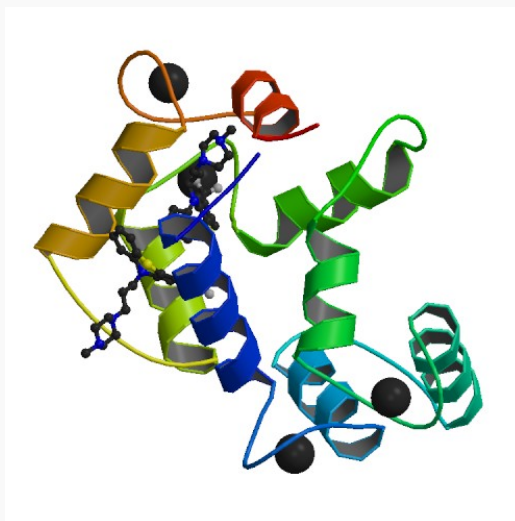
Pathway Alzheimer"s disease; Calcium signaling pathway; Glioma; GnRH signaling pathway; Insulin signaling pathway; Long-term potentiation; Melanogenesis; Neurotrophin signaling pathway; Olfactory transduction; Phosphatidylinositol signaling system; Vascular smooth muscle contraction

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