

Recombinant Human CALM1, His-tagged

Cat. No. CALM1-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human Calmodulin 1 (full-length), fused with an N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	Calmodulin 1 is a member of calcium-modulated proteins, which is present in the cytosol and on membranes facing the cytosol, and has a high affinity for calcium. Calmodulin 1 has 4 calcium-binding domains and plays a role in cell growth, cell cycle, signal transduction, and the synthesis and release of neurotransmitters. Calmodulin can bind to the epidermal growth factor receptor at its cytosolic juxtamembrane region and this inhibits its tyrosine kinase activity. A number of other proteins including HSP70 have been shown to interact with Calmodulin 1 in a cell-phase-specific manner.
Molecular weight	~17 kDa
Formulation	Recombinant protein stored in 50 mM sodiumphosphate, pH 7.0, 300 mMNaCl, 150 mM imidazole,0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.
Stability	The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

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Purity 70–95% as determined by SDS-PAGE.

GENE INFORMATION

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

Official Symbol CALM1

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_006888

Protein Refseq NP_008819

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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