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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