Recombinant Human CALM1

Cat. No. CALM1-90H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	E.coli
Description	The human Calmodulin 1 full-lengthrecombinant protein was expressed in E. coli.
Introduction	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.
AA Sequence	MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVD ADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNL GEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK
Molecular weight	16kDa
Formulation	Liquid, in 20 mMTris, pH 7.5
Stability	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.

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Purification	Conventional Chromatography
Concentration	1 mg/ml
Purity	> 90% as determined by SDS-PAGE.
SDS PAGE	Loading 3 ug protein in 15% 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;

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	Insulin signaling pathway; Long-term potentiation; Melanogenesis; Neurotrophin signaling pathway; Olfactory transduction; Phosphatidylinositol signaling system; Vascular smooth muscle contraction
PDB rendering based on 1a29.	

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