

Recombinant Human CALM2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CALM2-4558H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CALM2 MS Standard C13 and N15-labeled recombinant protein (NP_001734) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the calmodulin gene family. There are three distinct calmodulin genes dispersed throughout the genome that encode the identical protein, but differ at the nucleotide level. Calmodulin is a calcium binding protein that plays a role in signaling pathways, cell cycle progression and proliferation. Several infants with severe forms of long-QT syndrome (LQTS) who displayed life-threatening ventricular arrhythmias together with delayed neurodevelopment and epilepsy were found to have mutations in either this gene or another member of the calmodulin gene family (PMID:23388215). Mutations in this gene have also been identified in patients with less severe forms of LQTS (PMID:24917665), while mutations in another calmodulin gene family member have been associated with catecholaminergic polymorphic ventricular tachycardia (CPVT)(PMID:23040497), a rare disorder thought to be the cause of a significant fraction of sudden cardiac deaths in young individuals. Pseudogenes of this gene are found on chromosomes 10, 13, and 17. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	16.8 kDa

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AA Sequence	MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVD ADGNGTIDFPEFLTMMARKMKDSTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNL GEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAKTRTRPLEQKLISEEDLAANDI LDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CALM2 calmodulin 2 [Homo sapiens (human)]
Official Symbol	CALM2
Synonyms	CALM2; calmodulin 2 (phosphorylase kinase, delta); calmodulin; CAMII; PHKD; caM; LP7057 protein; phosphorylase kinase delta; CALM1; CALM3; PHKD2; FLJ99410;
Gene ID	805
mRNA Refseq	NM_001743
Protein Refseq	NP_001734

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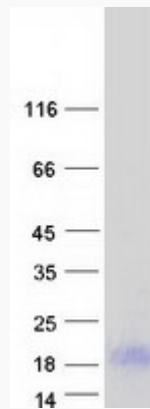
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MIM 114182

UniProt ID P62158

SDS-PAGE



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