

Recombinant Full Length Human CALM2 Protein, GST-tagged

Cat. No. CALM2-3064HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human CALM2 full-length ORF (AAH03354, 1 a.a. - 149 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

149 amino acids

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. [provided by RefSeq, Mar 2015]

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Molecular Mass	42.13 kDa
AA Sequence	MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVD ADGNGTIDFPEFLTMMARKVKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLG EKLTDDEEVDEMIREADIDGDGQVNYEEFVQMMTAK
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CALM2 calmodulin 2 (phosphorylase kinase, delta) [Homo sapiens]
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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MIM	114182
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UniProt ID	P62158
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