

Recombinant Human CALM1 Protein

Cat. No. CALM1-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full length Human CALM1 Protein (1-148) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-148 a.a.
Description	This gene encodes one of three calmodulin proteins which are members of the EF-hand calcium-binding protein family. Calcium-induced activation of calmodulin regulates and modulates the function of cardiac ion channels. Two pseudogenes have been identified on chromosome 7 and X. Multiple transcript variants encoding different isoforms have been found for this gene. A missense mutation in the CALM1 gene has been associated with ventricular tachycardia.
Molecular Mass	16.6 kDa
AA Sequence	MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTAEALQDMINEVD ADGNGTIDFPEFLTMMARKMKDTSDEEEIREAFRVFDKDGNGYISAAELRHVMTNL GEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTA
Purity	> 95% by SDS-PAGE. The protein is observed, in denaturing conditions, as a single band migrating at a molecular weight between 14.4 and 18.4 kDa.

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Storage	At -20 centigrade. The protein is stable at 25 centigrade for several hours. After initial defrost, aliquot the product into individual tubes and refreeze at -20 centigrade. Avoid repeated freeze/thaw cycles.
Concentration	1.0 mg/mL. The concentration is calculated by the analysis of the absorbance at 280 nm ($\epsilon_{280} = 2980 \text{ M}^{-1}\text{cm}^{-1}$ calculated).
Storage Buffer	Tris 20 mM pH 8.0, NaCl 150 mM, CaCl ₂ 2 mM, Complete Protease Inhibitor Cocktail EDTA-free.
Reconstitution	It is strongly recommended to add 1 tablet of Complete Protease Inhibitor Cocktail EDTA-free in 1000 mL of buffer in case of buffer exchange.
Shipping	Shipping in Dry Ice
Full Length	Full L.

GENE INFORMATION

Gene Name	CALM1 calmodulin 1 [Homo sapiens (human)]
Official Symbol	CALM1
Synonyms	CALM1; calmodulin 1; caM; CAM2; CAM3; CAMB; CAMC; CAMI; PHKD; CPVT4; DD132; LQT14; PHKD1; CALML2; CAMIII; calmodulin-1; Calmodulin-2; Calmodulin-3; calmodulin 1 (phosphorylase kinase, delta); phosphorylase kinase subunit delta; phosphorylase kinase subunit delta 1; phosphorylase kinase, delta subunit; prepro-calmodulin 1; EC 2.7.11.19
Gene ID	801

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mRNA Refseq	NM_006888
Protein Refseq	NP_008819
MIM	114180
UniProt ID	B4DJ51

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