

## Recombinant Human CALM1 Protein, His-tagged

Cat. No. CALM1-2721H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CALM1 Protein (Ala2-Lys149) with N-His tag was expressed in 293F.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Ala2-Lys149
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 18.3 kDa Accurate Molecular Mass: 18 kDa
<b>Purity</b>	> 95%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	CALM1 calmodulin 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CALM1
<b>Synonyms</b>	Calmodulin; CAM; 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
<b>Gene ID</b>	801
<b>mRNA Refseq</b>	NM_006888
<b>Protein Refseq</b>	NP_008819

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<b>MIM</b>	114180
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<b>UniProt ID</b>	P0DP23
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