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# Product Information

## MemDX™ Membrane Protein Human CALM1 (Calmodulin 1) for Antibody Discovery

Cat. No.: **MP1391J**
This product is for research use only and is not intended for diagnostic use.

This product is a 32.7 kDa Human CALM1 membrane protein expressed in E.coli. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
CALM1

**Protein Length**
Partial (2-149aa)

**Protein Class**
Ion Channel

**Molecular Weight**
32.7 kDa

**Sequence**
ADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIRE

## Product Description

**Expression Systems**
E.coli

**Tag**
N-6xHis-SUMO

**Form**
Liquid or Lyophilized powder

**Reconstitution**
Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration).

**Purity**
>85% as determined by SDS-PAGE

### Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol
Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Store at +4°C for up to one week or several months at -80°C

## Target

### Target Protein

CALM1

### Full Name

Calmodulin 1

### Introduction

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.

### Alternative Names

CALM1; CALM; CAM; CAM1Calmodulin; caM; CAM2; CAM3; CAMB; CAMC; CAMI; PHKD; CPVT4; DD132; LQT14; CALML2; CAMIII

### Gene ID

801

### UniProt ID

P0DP23