

# Recombinant Human CALD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CALD1-2635H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CALD1 MS Standard C13 and N15-labeled recombinant protein (NP_149347) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. |
| <b>Molecular Mass</b>   | 65.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MDDFERRRELRRQKREEMRLEAERIAAYQRNDDDEEEAARERRRRARQERLRQKQ<br>EEESLGQVTDQVEVNAQNSVPDEEAKTTTTNTQVEGDDEAAFLERLARREERRQK<br>RLQEALERQKEFDPTITDASLSLPSRRMQNDTAENETTEKEEKSESQRERYEIEETE<br>TVTKSYQKNDWRDAEENKKEDKEKEEEEEKPKRGSIGENQGEEKGTKVQAKREK<br>LQEDKPTFKKEEIKDEKIKKDKPEKEEVKSFMDRKKGFTEVKSQNGEFMTHKLKHT<br>NTFSRPGGRASVDTKEAEGAPQVEAGKRLEELRRRRGETESEEFELKQKQQA                                                                                                                                                                                                                               |

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LELEELKKKREERRKVL EEEEEQRRKQEEADRLREEEERRLKEEIERRRAEAAEKR  
 QKMPEDGLSDDKKPFKCFTPKGSSLKIEERAFLNKSQKSSGVKSTHQAAIVSKID  
 SRLEQYTS AIEGTS AKPTKPAASDLPVPAEGVRNIKSMWEKGNVFSSPTAAGTPNK  
 ETAGLKVGVS SRINEWLT KTPDGNKSPAPKPSDLRPGDVSSKRNLWEKQSVDKVTS  
 PTKVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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** CALD1 caldesmon 1 [ Homo sapiens (human) ]

**Official Symbol** CALD1

**Synonyms** CALD1; caldesmon 1; caldesmon; CDM; H CAD; L CAD; HCAD; LCAD; H-CAD; L-CAD; NAG22; MGC21352;

**Gene ID** 800

**mRNA Refseq** NM\_033157

**Protein Refseq** NP\_149347

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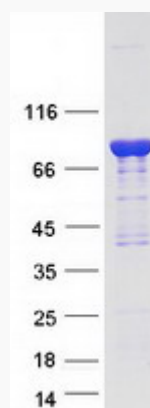
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MIM 114213

UniProt ID Q05682

SDS-PAGE



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