

Recombinant Full Length Human CALD1 Protein, GST-tagged

Cat. No. CALD1-3060HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CALD1 full-length ORF (NP_004333.1, 1 a.a. - 538 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	538 amino acids
Description	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. [provided by RefSeq, Jul 2008]
Molecular Mass	89.1 kDa
AA Sequence	MDDFERRRELRRQKREEMRLEAERIAAYQRNDDDEEEAARERRRRRARQERLRQKQ EEESLGQVTDQVEVNAQNSVPDEEAKTTTTNTQVEGDDEAAFLERLARREERRQK RLQEALERQKEFDPTITDASLSLPSRRMQNDTAENETTEKEEKSESQRERYEIEETE TVTKSYQKNDWRDAEENKKEDKEKEEEEEKPKRGSIGENQIKDEKIKKDKPEKKEEV KSFMDRKKGFTEVKSQNGEFMTHLKHTEFTSRPGRASVDTKEAEGAPQVEAG

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



KRLEELRRRRGETESEEFELKQKQQAALALEELKKKREERRKVLEEEEQRRKQE
 EADRKLREEEEEKRRLKEEIERRRAEAAEKRQKMPEDGLSDDKPKFCFTPKGSSSLKI
 EERAFLNKSQKSSGVKSTHQAIVSKIDSRLEQYTSIAIEGTKSAKPTKPAASDLPV
 PAEGVRNIKSMWEKGNVSSPTAAGTPNKETAGLKVGVSSRINEWLTKTPDGNKSP
 APKPSDLRPGDVSSKRNLWEKQSVDKVTSPTKV

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
 CALD1 caldesmon 1 [Homo sapiens]

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_033138

Protein Refseq
 NP_149129

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

Email: info@creative-biomart.com Fax: 1-631-938-8127

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



MIM	114213
------------	--------

UniProt ID	Q05682
-------------------	--------

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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