

Recombinant Full Length Human CALD1 Protein

Cat. No. CALD1-46HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-538 of Human Caldesmon, with an N-terminal proprietary tag, predicted MWt 85.25 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	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.
Form	Liquid
Molecular Mass	85.250kDa inclusive of tags
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

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Storage Buffer pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

GENE INFORMATION

Gene Name CALD1 caldesmon 1 [Homo sapiens]

Official Symbol CALD1

Synonyms CALD1; caldesmon 1; caldesmon; CDM; H CAD; LCAD

Gene ID 800

mRNA Refseq NM_004342

Protein Refseq NP_004333

MIM 114213

UniProt ID Q05682

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