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Certificate of Analysis and Data Sheet Recombinant Human Calmodulin

Catalog No.
228-10166

Source:
Escherichia Coli.

Synonyms

Calmodulin, CaM, CALM2, PHKD, CAMII, PHKD2, calmodulin 2, phosphorylase kinase delta.

Introduction

Calmodulin (CaM) is an intracellular receptor protein for Ca²⁺-ions. It activates the myosin light chain kinase which is the catalyst of myosin phosphorylation. CaM participates in the activation of enzymes such as cyclic nucleotide- dependent phosphodiesterase, calcineurin, ATPase, Myosin Light Chain Kinases, and CAM kinase.

Description

Calmodulin Human Recombinant full length protein expressed in E.coli, having a Molecular Weight of approximately 16 kDa, the Accession number is NP_001734.

Physical Appearance

Sterile Filtered clear solution.

Formulation

Calmodulin at 1mg/ml in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.

Activity

Assayed for calcium binding and activation of MLCK.

Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. **Please prevent freeze-thaw cycles.**

Applications

• ELISA • Inhibition Assays • Western Blotting.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MADQLTEEQI AEFKEAFSLF DKDGDGTITT KELGTVMRSL GQNPTEAELQ DMINEVDADG
NGTIDFPEFL TMMARKMKDT DSEEEIREAF RVFDKDGNGYISAAELRHVM TNLGEKLTDE
EVDEMIREAD IDGDGQ.

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Not for diagnostic or therapeutic use.**