



Product Datasheet

Product Name	Calmodulin Human Recombinant
Cata No	CB500991
Source	<i>Escherichia Coli.</i>
Synonyms	Calmodulin, CaM, CALM2, PHKD, CAMII, PHKD2, calmodulin 2, phosphorylase kinase delta

Description

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. 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.

Biological Activity

Assayed for calcium binding and activation of MLCK.

Purity

Greater than 90% as determined by SDS-PAGE.

Formulation

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

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.

Sequence

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

Applications

- ELISA
- Inhibition Assays
- Western Blotting