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NMM Human

Non-Muscle Myosin-II Regulatory Light Chain Human Recombinant
RCP1513

Product Overview

Name	NMM Human

Description

Non-Muscle Myosin-II Regulatory Light Chain Human Recombinant

Synonyms

Non-Muscle Myosin-II Regulatory Light Chain, NMM.

Introduction

Non muscle Myosins are required for cytokinesis at the end of cell division, when a contractile ring near the plasmalemma divides the cytoplasm of the daughter cells. They are involved in cytoplasmic streaming movements in tissues, and especially in activation of motile cells such as fibroblasts and macrophages. Activation of non-muscle myosin-II is achieved by phosphorylation of Ser33 in the motif KKRPQRATSN by a dedicated, Ca +2 Calmodulin regulated light chain kinase (MLCK).

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

NMM protein at 0.2mg/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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MSSKKAKTKT TKKRPQRATS NVFAMFDQSQ IQEFKEAFNM IDQNRDGFID KEDLHDMLAS LGKNPTDAYL DAMMNEAPGP INFTMFLTMF GEKLNGTDPE DVIRNAFACF DEEATGTIQE DYLRELLTTM GDRFTDEEVD ELYREAPIDK KGNFNYIEFT RILKHGAKDK DD.

Biological Activity

Assayed for phosphorilation by MLCK.

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Precautions

NMM Human is for research use only and not for use in diagnostic or therapeutic procedures.