

NMM Human

Description: Non-Muscle Myosin-II Regulatory Light Chain Human Recombinant full length expressed in E.coli. The NMM is purified by proprietary chromatographic techniques.

Catalog #: PRPS-373

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

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MSSKKAKTKT TKKRPQRATS NVFAMFDQSQ IQEFKEAFNM
IDQNRDGFID KEDLHDMLAS LGKNPTDAYL DAMMNEAPGP INFTMFLTMF GEKLNQTDPE
DVIRNAFACF DEEATGTIQE DYLLRELLTMM GDRFTDEEVD ELYREAPIDK KGNFNIEFT
RILKHGAKDK DD.

Purity: Greater than 95.0% as determined by SDS-PAGE.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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 KKRPPQRATSN by a dedicated, Ca⁺² Calmodulin regulated light chain kinase (MLCK).

Biological Activity:

Assayed for phosphorylation by MLCK.

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