

32-4332: Recombinant Human Non-Muscle Myosin-II Regulatory Light Chain

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

Description

Source : Escherichia Coli. Non-Muscle Myosin-II Regulatory Light Chain Human Recombinant full length expressed in E.coli. The NMM is purified by proprietary chromatographic techniques. 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 KKRPRATS by a dedicated, Ca²⁺ Calmodulin regulated light chain kinase (MLCK).

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	NMM protein at 0.2mg/ml in 20mM HEPES-KOH, pH7, 50mM NaCl, 1mM EDTA and 1mM DTT.
Storage condition :	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.
Amino Acid :	MSSKKAKT KT KKRPRATS NVFAMFDQSQ IQEFKEAFNM IDQNRDGFID KEDLHDM LAS LGKNPTDAYL DAMMNEAPGP INFTMFLTMF GEKLN GTDPE DVIRNAFACF DEEATGTIQE DYLRELLTMM GDRFTDEEVD ELYREAPIDK KGNFNYIEFT RILKHGAKDK DD.

Application Note

Assayed for phosphorylation by MLCK.

