

Recombinant Human Non-Muscle Myosin-II Regulatory Light Chain

Catalog No.	CSI12274	Quantity:	2 µg
	CSI12275		10 µg
	CSI12276		1.0 mg

Alternate Names: Non-Muscle Myosin-II Regulatory Light Chain, NMM

Description: 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 KKRPRQATS N by a dedicated, Ca +2 Calmodulin regulated light chain kinase (MLCK).
Non-Muscle Myosin-II Regulatory Light Chain Human Recombinant full length expressed in E.coli.
The NMM is purified by proprietary chromatographic techniques.

Source: *E. coli*

Formulation: Sterile filtered liquid at 0.2mg/ml in 20 mM HEPES-KOH, pH7, 50 mM NaCl + 1 mM EDTA and 1 mM DTT.

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

Biological Activity: Assayed for phosphorylation by MLCK

Amino Acid Sequence: MSSKKAKTKT TKKRPRQATS NVFAMFDQSQ IQEFKEAFNM IDQNRDGFID
KEDLHDMLAS LGKNPTDAYL DAMMNEAPGP INFTMFLTMF GEKLN GTDPE
DVIRNAFACF DEEATGTIQE DYLLRELLTTM GDRFTDEEVD ELYREAPIDK
KGNFN YIEFT RILKHGAKDK DD

Applications: Western Blot
ELISA
Inhibition Assays
The optimal concentration should be determined by the user for each specific application.

Storage & Stability: Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.
Avoid repeated freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.