

Myosin light chain kinase fragment 11-19 amide

Cat. No.:	HY-P3214
CAS No.:	119386-39-9
Molecular Formula:	C ₄₀ H ₇₈ N ₁₈ O ₁₁
Molecular Weight:	987.16
Sequence Shortening:	KKRAARATS-NH2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Myosin light chain kinase fragment 11-19 amide (MLCK(11-19) amide) is a substrate-specific peptide inhibitor of MLCK. Myosin light chain kinase fragment 11-19 amide inhibits hypotonicity-induced Ca ²⁺ entry. Myosin light chain kinase fragment 11-19 amide can be used in the research of human cervical cancer ^{[1][2]} .
IC₅₀ & Target	MLCK ^[1]
In Vitro	Myosin light chain kinase fragment 11-19 amide (5 μM) reduces the amplitude and rate of activation of noradrenaline-evoked non-selective cation current (I _{cat}) in rabbit portal vein myocytes ^[1] . Myosin light chain kinase fragment 11-19 amide inhibits swelling-activated taurine transport with an IC ₅₀ value of 2.0 μM ^[2] . Myosin light chain kinase fragment 11-19 amide (10 μM) inhibits β2-integrin-mediated adhesion in neutrophils treated with KT5720 (25 μM) ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Aromolaran AS, et al. Evidence for myosin light chain kinase mediating noradrenaline-evoked cation current in rabbit portal vein myocytes. *J Physiol*. 2000 May 1;524 Pt 3(Pt 3):853-63.
- [2]. Shen MR, et al. Myosin light chain kinase modulates hypotonicity-induced Ca²⁺ entry and Cl⁻ channel activity in human cervical cancer cells. *Pflugers Arch*. 2002 May;444(1-2):276-85.
- [3]. Chilcoat CD, et al. Tonic protein kinase A activity maintains inactive beta2 integrins in unstimulated neutrophils by reducing myosin light-chain phosphorylation: role of myosin light-chain kinase and Rho kinase. *J Leukoc Biol*. 2008 Apr;83(4):964-71.

Caution: Product has not been fully validated for medical applications. For research use only.

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