

## MLCK inhibitor peptide 18

## Chemical Properties

CAS No.:	224579-74-2
Formula:	C <sub>60</sub> H <sub>105</sub> N <sub>23</sub> O <sub>11</sub>
Molecular Weight:	1324.64
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Selective competitive inhibitor of myosin light chain kinase (IC <sub>50</sub> = 50 nM). Displays 4000-fold selectivity over CaM kinase II and does not inhibit PKA. Cell permeable.
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## Solubility Information

Solubility	water: 1 mg/mL ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.755 mL	3.775 mL	7.549 mL
5 mM	0.151 mL	0.755 mL	1.51 mL
10 mM	0.075 mL	0.377 mL	0.755 mL
50 mM	0.015 mL	0.075 mL	0.151 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Lukas et al (1999) Identification of novel classes of protein kinase inhibitors using combinatorial peptide chemistry based on functional genomics knowledge. J.Med.Chem. 42 910 PMID:
2. Zolotarevsky et al (2002) A membrane-permeant peptide that inhibits MLC kinase restores barrier function in in vitro models of intestinal disease. Gastroenterology 123 163 PMID:

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