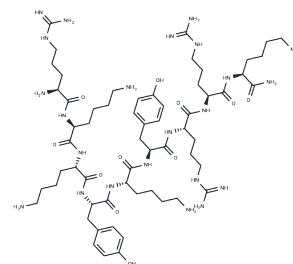


## MLCK inhibitor peptide 18

## Chemical Properties

CAS No. :	224579-74-2
Formula:	C60H105N23O11
Molecular Weight:	1324.64
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Selective competitive inhibitor of myosin light chain kinase (IC50 = 50 nM). Displays 4000-fold selectivity over CaM kinase II and does not inhibit PKA. Cell permeable.
Targets(IC50)	CaMK, Autophagy, Myosin

## Solubility Information

Solubility	H2O: 1 mg/mL (0.75 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7549 mL	3.7746 mL	7.5492 mL
5 mM	0.151 mL	0.7549 mL	1.5098 mL
10 mM	0.0755 mL	0.3775 mL	0.7549 mL
50 mM	0.0151 mL	0.0755 mL	0.151 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- 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:
- Zolotarevsky et al (2002) A membrane-permeant peptide that inhibits MLC kinase restores barrier function in vitro models of intestinal disease. Gastroenterology 123 163 PMID:

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