

## MLCK inhibitor peptide 18 acetate

## Chemical Properties

CAS No. :

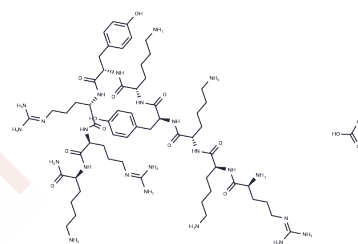
Formula: C<sub>62</sub>H<sub>109</sub>N<sub>23</sub>O<sub>13</sub>

Molecular Weight: 1384.67

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MLCK inhibitor peptide 18 acetate is a 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.
Targets(IC <sub>50</sub> )	Serine/threonin kinase

## Solubility Information

Solubility	H <sub>2</sub> O: 5 mM, Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7222 mL	3.611 mL	7.2219 mL
5 mM	0.1444 mL	0.7222 mL	1.4444 mL
10 mM	0.0722 mL	0.3611 mL	0.7222 mL
50 mM	0.0144 mL	0.0722 mL	0.1444 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:

Chen X, Shen Y, Song Z, et al. microRNA-2184 orchestrates Mauthner-cell axon regeneration in zebrafish via syt3 modulation. Journal of Genetics and Genomics. 2024

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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