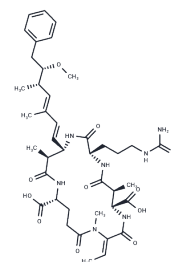


## Nodularin

## Chemical Properties

CAS No. :	118399-22-7
Formula:	C <sub>41</sub> H <sub>60</sub> N <sub>8</sub> O <sub>10</sub>
Molecular Weight:	824.977
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	The cyanobacterium <i>Nodularia spumigena</i> often contaminates the drinking water of rural communities in developing countries and accumulates in mussels, flounder, and cod from the northern Baltic Sea. Nodularin is a hepatotoxic monocyclic pentapeptide produced by the <i>N. spumigena</i> . It is a potent inhibitor of protein phosphatase types 1 (PP1) and 2A (PP2A), exhibiting IC <sub>50</sub> values of 1.8 and 0.026 nM, respectively. PP2B is inhibited to a lesser extent with an IC <sub>50</sub> of 1.8 μM. No apparent inhibitory effect is observed with PP2C, alkaline phosphatase, acid phosphatase, insulin receptor tyrosine kinase, protein kinase A, phosphorylase kinase, or protein kinase C.
Targets(IC <sub>50</sub> )	Others,Phosphatase

## Solubility Information

Solubility	Ethanol: 10 mg/mL (12.12 mM),Sonication is recommended. Methanol:H <sub>2</sub> O (1:1): 1 mg/mL (1.21 mM),Sonication is recommended. DMSO: 10 mg/mL (12.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.2122 mL	6.0608 mL	12.1215 mL
5 mM	0.2424 mL	1.2122 mL	2.4243 mL
10 mM	0.1212 mL	0.6061 mL	1.2122 mL
50 mM	0.0242 mL	0.1212 mL	0.2424 mL

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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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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