

Product Data Sheet

Product Name: Nodularin

Cat. No.: GC44436

Chemical Properties

Cas. No. 118399-22-7

SMILES CC(/C=C/[C@@]([H])(NC([C@@H](CCCNC(N)=N)NC([C@H](C)[C@@H](C(O)=O)NC(=O)=O)[C@@H](C)C(N[C@H](C(O)=O)CCC(N(C)C1=C/C(=O)=O)=C/[C@H]([C@@H](CC2=CC=CC=C2)OC)C

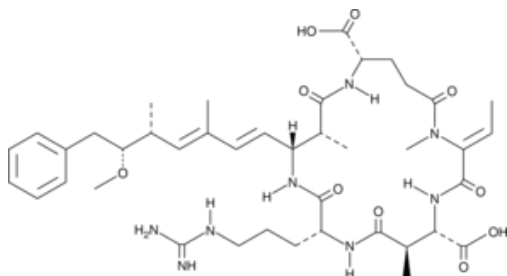
Formula C₄₁H₆₀N₈O₁₀ M.Wt 825

Solubility DMSO: 10 mg/ml, Ethanol: 10 mg/ml, Methanol: Water (1:1): 1 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

The cyanobacterium *Nodularia spumigena* 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 *N. spumigena*. It is a potent inhibitor of protein phosphatase types 1 (PP1) and 2A (PP2A), exhibiting IC₅₀ values of 1.8 and 0.026 nM, respectively. PP2B is inhibited to a lesser extent with an IC₅₀ of

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

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1.8 μ M. 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.

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