Nodularin

Inhibitor of PP1 and PP2A

Nodularia spumigena is a cyanobacterium often found in drinking water in developing countries and capable of accumulating in fish and seafood. It produces nodularin, a genotoxic and hepatotoxic monocyclic pentapeptide. Nodularin inhibits protein phosphatase 1 (PP1) (IC_{50}=1.8nM), protein phosphatase 2A (PP2A) (IC_{50}=0.026nM), and to a lesser extent protein phosphatase 2B (PP2B) (IC_{50}=8.7µm). Nodularin is similar to microcystin-LR (Prod. No. ALX-350-012) but with increased water solubility. Nodularin is capable of inducing oxidative DNA damage by oxidation of purines as well as apoptosis in HepG2 cells.

May require a license for import, please contact us for more information.

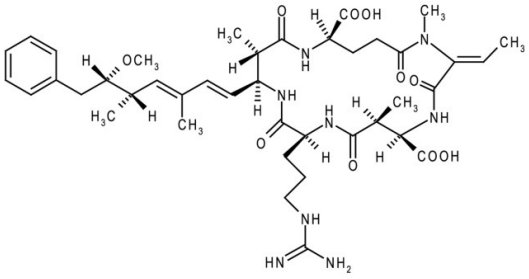
Citations: 35 View Online »

- Hepatotoxin
- Potent inhibitor of PP1 and PP2A
- Useful for cytotoxicity and environmental studies

Ordering Information Order Online »

ALX-350-061-M001	1mg
ALX-350-061-C100	100µg
ALX-350-061-C250	250µg

Manuals, SDS & CofA View Online »




Enzo
Nodularin
Cat. No.: ALX-350-061-C100
Lot No.: LM077
Storage: -20C
For Research Use Only

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Dry residue containing traces of monobasic potassium phosphate.
CAS	118399-22-7
Couple Target	Serine/threonine-protein phosphatase
Couple Type	Inhibitor
Formula	$C_{41}H_{60}N_8O_{10}$
Identity	Identity determined by MS.
MW	825.0
Purity	≥95% (HPLC)
RTECS	GU2294250
Solubility	Soluble in methanol:water (1:1).
Source	Isolated from *Nodularia spumigena*.

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