

Nodularin

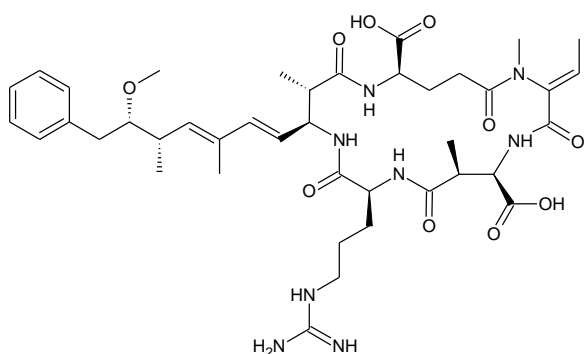
from *Nodularia* sp.



Analytical Standard

Product Information

Cat. No.	Amount
Nod-a	1 mL (10 µg/mL)



Product Specifications

Molecular Formula	C ₄₁ H ₆₀ N ₈ O ₁₀
Molecular Weight	824,4 g/mol
Purity	>95 % (HPLC)
Source	<i>Nodularia</i> sp. strain
Form	solution of 10 µg/mL in methanol
Shipping	Ambient
Long Term Storage	- 20°C
Shelf life	24 months
Stability	The analytical standard should be used immediately after the vial is opened

Description

Cyclic pentapeptide toxin isolated from the freshwater cyanobacterium *Nodularia* sp.^{1,2}

The identity of the compound has been confirmed by NMR and MS/MS.

The analytical standard is dissolved in 100% methanol and ready to use for calibration. It is distributed in amber glass vials containing around 10 µg in 1 ml MeOH. The concentration of each lot is determined spectrophotometrically, confirmed by HPLC, and stated on the Certificate of Analysis.

For research use only!

Not available for sale to end-users without signing an end-use-certificate as required by German and international law.

[1] Rinehart et al., Nodularin, microcystin and the configuration of Adda, *J. Am. Chem. Soc.* 1988, 110, 8557-8558

Namikoshi et al., New Nodularins: A General Method for Structure Assignment, *J. Org. Chem.* 1994, 59, 2349-2357

[2] Honkanen et al., Cyanobacterial nodularin is a potent inhibitor of type 1 and type 2A protein phosphatases, *Mol. Pharmacol.* 1991, 40, 577-583

Lankoff et al., Nodularin-induced genotoxicity following oxidative DNA damage and aneuploidy in HepG2 cells, *Toxicol. Lett.* 2006, 164, 239-248