Nodularin Analytical Standard

Cat. No. NOD-10N **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cyclic pentapeptide toxin isolated from the freshwater cyanobacterium Nodularia sp. 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.
Species	Nodularia sp.
Source	Nodularia sp.
Form	Solution
Molecular Formula	C41H60N8O10
Molecular Weight	824,4 g/mol
Purity	>95 % (HPLC)
Long Term Storage	At - 20 centigrade.
Shelf life	24 months
Stability	The analytical standard should be used immediately after the vial is opened

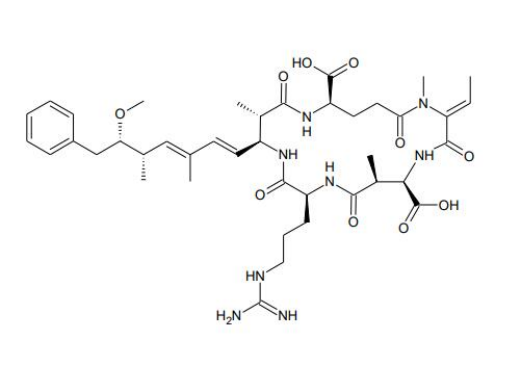
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Buffer	Solution of 10 μg/mL in methanol
Concentration	10 μg/mL
Shipping	Ambient
Note	For research use only!
References	1. Rinehart et al., Nodularin, microcystin and the configuration of Adda, J. Am. Chem. Soc. 1988, 110, 8557-8558 2. Namikoshi et al., New Nodularins: A General Method for Structure Assignment, J. Org. Chem. 1994, 59, 2349-2357 3. Honkanen et al., Cyanobacterial nodularin is a potent inhibitor of type 1 and type 2A protein phosphatases, Mol. Pharmacol. 1991, 40, 577-583 4. Lankoff et al., Nodularin-induced genotoxicity following oxidative DNA damage and aneuploidy in HepG2 cells, Toxicl. Lett. 2006, 164, 239-248

GENE INFORMATION

Official Symbol	NOD
Synonyms	NOD; Nodularin

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