

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, Toxicol. Lett. 2006, 164, 239-248
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GENE INFORMATION

Official Symbol	NOD
Synonyms	NOD; Nodularin

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