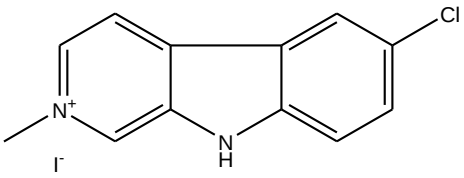
Nostocarboline iodide

Cat # NB-48-0690



Product Information

Batch No.:	0656BN/01
Chemical Name:	6-Chloro-2-methyl-9*H*-pyrido[3,4-b]indol-2-ium iodide; 6-Chloro-2-methylnorharmane iodide
Batch Molecular Formula:	$C_{12}H_{10}ClIN_2$
Batch Molecular Weight:	344.58
CAS No.:	
Physical Appearance:	Yellow powder
Storage:	Desiccate at +4° C

Solvent and solubility

Soluble in water

Biological activity

Potent Butyrylcholinesterase (BChE) inhibitor (IC50 = 13.2 µM), orginally isolated from the freshwater cyanobacterium Nostoc 78-12A. The inhibitory activity is of the same order of magnitude as that of galanthamine. Very recently, it shows a 50% reduction in parasitaemia at 4 x 50 mg/kg (i.p.) in an in vivo Plasmodium berghei mouse model. See also the Des-chloro homologue 2-Methylnorharmane (Cat. No. NB-48-0063-1MG).

(Sold under license from ETH Zürich; Patent applied)

References

1. Becher et al. (2005) J Nat Prod 68:1793
2. Blom et al. (2006) Org Lett 8:737
3. Bonazzi et al. (2010) Bioorg Med Chem 18:1464

Neo-Biotech
74, rue des Suisses - 92000 Nanterre

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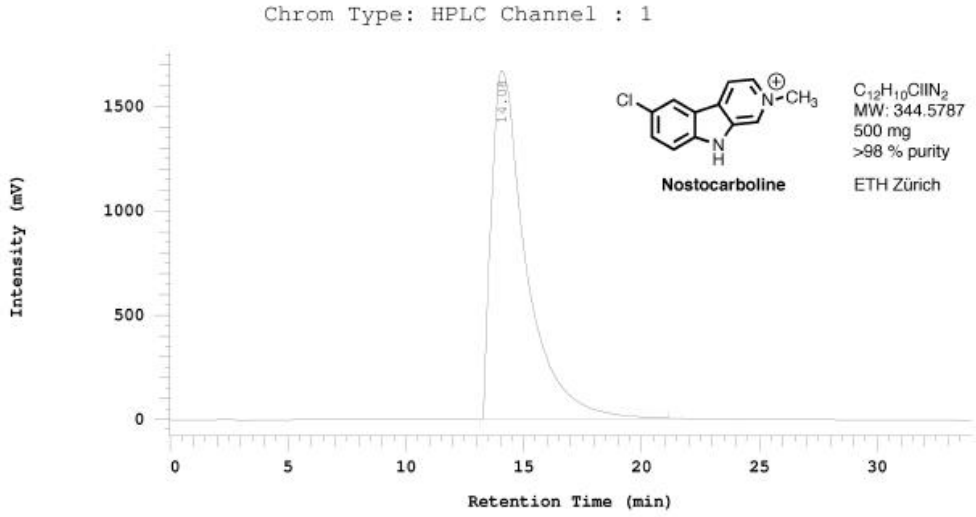
Analytical data

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: 98% (complies).



Acquisition Method: method1
Column Type: Siehe Vorschrift
Developed by: Damien Barbaras
Pump A Type: L-7100
Solvent A: CH3CN
Solvent B:
Solvent C:
Solvent D: H2O(TFA 0.1%)
Method Description:

Chrom Type: HPLC Channel : 1

Peak Quantitation: AREA
Calculation Method: AREA%

No.	RT	Area	Conc 1	BC
1	14.08	1.698E+08	100.000	BB
		1.698E+08	100.000	

Peak rejection level: 0

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