

Neoxaline

Chemical Properties

CAS No. :	909900-78-3
Formula:	C ₂₃ H ₂₅ N ₅ O ₄
Molecular Weight:	435.48
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Neoxaline is an alkaloid isolated from fermentation broth of <i>Aspergillus japonicus</i> .
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2963 mL	11.4816 mL	22.9632 mL
5 mM	0.4593 mL	2.2963 mL	4.5926 mL
10 mM	0.2296 mL	1.1482 mL	2.2963 mL
50 mM	0.0459 mL	0.2296 mL	0.4593 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Hirano A, Iwai Y, Masuma R, Tei K, Omura S. Neoxaline, a new alkaloid produced by *Aspergillus japonicus*. Production, isolation and properties. *J Antibiot (Tokyo)*. 1979 Aug;32(8):781-5. PubMed PMID: 500498.
- Ideguchi T, Yamada T, Shirahata T, Hirose T, Sugawara A, Kobayashi Y, Ōmura S, Sunazuka T. Asymmetric total synthesis of neoxaline. *J Am Chem Soc*. 2013 Aug 28;135(34):12568-71. doi: 10.1021/ja406657v. Epub 2013 Aug 19. PubMed PMID: 23957424.
- Sunazuka T, Shirahata T, Tsuchiya S, Hirose T, Mori R, Harigaya Y, Kuwajima I, Omura S. A concise stereoselective route to the indoline spiroaminal framework of neoxaline and oxaline. *Org Lett*. 2005 Mar 3;7(5):941-3. PubMed PMID: 15727480.
- Martín JF, Liras P. Evolutionary formation of gene clusters by reorganization: the meleagrín/roquefortine paradigm in different fungi. *Appl Microbiol Biotechnol*. 2016 Feb;100(4):1579-87. doi: 10.1007/s00253-015-7192-y. Epub 2015 Dec 15. Review. PubMed PMID: 26668029.

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