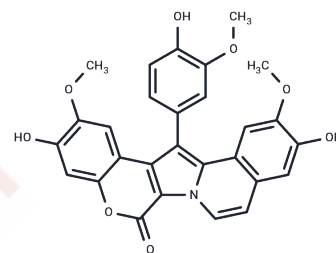


Lamellarin D

Chemical Properties

CAS No. :	97614-65-8
Formula:	C ₂₈ H ₂₁ N ₁ O ₈
Molecular Weight:	499.47
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Lamellarin D (Lamellarine D), a hexacyclic pyrrolizidine alkaloid isolated from marine invertebrates, is a mitochondria-targeted topoisomerase I inhibitor and a pro-apoptotic agent.
Targets(IC50)	Apoptosis, Topoisomerase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0021 mL	10.0106 mL	20.0212 mL
5 mM	0.4004 mL	2.0021 mL	4.0042 mL
10 mM	0.2002 mL	1.0011 mL	2.0021 mL
50 mM	0.040 mL	0.2002 mL	0.4004 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

- Lade DM, et al. Total Synthesis of Lamellarin D Trimethyl Ether, Lamellarin D, and Lamellarin H. *J Org Chem.* 2017 May 5;82(9):4998-5004.
- Colligs V, et al. Synthesis and biological evaluation of a D-ring-contracted analogue of lamellarin D. *Bioorg Med Chem.* 2017 Nov 15;25(22):6137-6148.
- Dahmane N, et al. top1b, a phylogenetic hallmark gene of Thaumarchaeota encodes a functional eukaryote-like topoisomerase IB. *Nucleic Acids Res.* 2016 Apr 7;44(6):2795-805.
- Manjappa KB, et al. Visible-Light-Promoted and Yb(OTf)₃-Catalyzed Constructions of Coumarin-Pyrrole-(Iso)quinoline-Fused Pentacycles: Synthesis of Lamellarin Core, Lamellarin D Trimethyl Ether, and Lamellarin H. *Org Lett.* 2016 Jan 15;18(2):332-5.

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