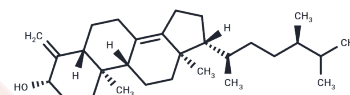


Conicasterol

Chemical Properties

CAS No. :	76758-18-4
Formula:	C ₂₉ H ₄₈ O
Molecular Weight:	412.69
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	Conicasterol displays marked cytotoxic activity against human breast adenocarcinoma cell line (MCF-7) with the IC ₅₀ value of 6.23 ug/mL.
Targets(IC ₅₀)	Others
In vitro	As a part of our continuing work to find out bioactive lead molecules from marine invertebrates, the CHCl ₃ fraction of the organic extract of the Red Sea sponge Theonella mirabilis showed cytotoxic activity in our primary screen. Bioassay-guided purification of the active fractions of the sponge's extract resulted in the isolation of two new glycerides, mirabolides A and B (1 and 2), together with the reported 4-methylene sterols, Conicasterol (3) and swinhosterol B (4). The structures of the compounds were assigned by interpretation of their 1D (¹ H, (¹³ C), 2D (COSY, HSQC, HMBC, ROESY) NMR spectral data and high-resolution mass determinations.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4231 mL	12.1156 mL	24.2313 mL
5 mM	0.4846 mL	2.4231 mL	4.8463 mL
10 mM	0.2423 mL	1.2116 mL	2.4231 mL
50 mM	0.0485 mL	0.2423 mL	0.4846 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

Mirabolides A and B; New Cytotoxic Glycerides from the Red Sea Sponge Theonella mirabilis. Mar Drugs. 2016 Aug 18;14(8).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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