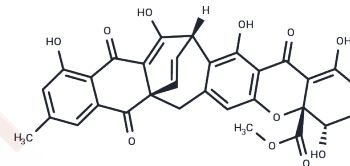


Xanthoquinodin A1

Chemical Properties

CAS No. :	151063-27-3
Formula:	C ₃₁ H ₂₄ O ₁₁
Molecular Weight:	572.522
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	Xanthoquinodin A1 is a fungal metabolite that has been found in <i>Humicola</i> and has diverse biological activities. 1,2 It inhibits <i>E. tenella</i> schizont formation in BHK-21 cells with a minimum effective concentration (MEC) value of 0.02 µg/ml. 1 Xanthoquinodin A1 is active against <i>B. subtilis</i> , <i>M. luteus</i> , <i>S. aureus</i> , <i>A. laidlawii</i> , and <i>B. fragilis</i> in a disc assay when used at a concentration of 1 mg/ml. It is also active against <i>B. cereus</i> (MIC = 0.44 µM). 2 Xanthoquinodin A1 is cytotoxic to KB, MCF-7, and NCI H187 cancer cells.
Targets(IC50)	Others, Antibiotic

Solubility Information

Solubility	Ethanol: Soluble Dichloromethane: Soluble Methanol: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7467 mL	8.7333 mL	17.4666 mL
5 mM	0.3493 mL	1.7467 mL	3.4933 mL
10 mM	0.1747 mL	0.8733 mL	1.7467 mL
50 mM	0.0349 mL	0.1747 mL	0.3493 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

- Tabata, N., Suzumura, Y., Tomoda, H., et al. Xanthoquinodins, new anticoccidial agents produced by *Humicola* sp. Production, isolation and physico-chemical and biological properties. *J. Antibiot. (Tokyo)* 46(5)749-755(1993)
- Tantapakul, C., Promgool, T., Kanokmedhakul, K., et al. Bioactive xanthoquinodins and epipolythiodioxopiperazines from *Chaetomium globosum* 7s-1, an endophytic fungus isolated from *Rhapis cochinchinensis* (Lour.) *MartNat. Prod. Res.* 34(4)494-502(2020)

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