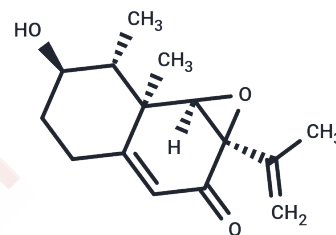


## Sporogen-AO 1

## Chemical Properties

CAS No. :	88418-12-6
Formula:	C <sub>15</sub> H <sub>20</sub> O <sub>3</sub>
Molecular Weight:	248.32
Storage:	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	Sporogen-AO 1, a compound from the commensal fungus <i>Penicillium</i> sp. G1-a14, is an inhibitor of human inducible nitric oxide synthase expression with antimalarial activity and strong cytotoxicity.
Targets(IC50)	NOS,Parasite
In vitro	Sporogen-AO 1 showed significant antimalarial effects against <i>Plasmodium falciparum</i> with an IC <sub>50</sub> =1.53 μM and some cytotoxicity. [1]

## Solubility Information

Solubility	Dichloromethane: 1 mg/mL (4.03 mM),Sonication is recommended. DMSO: 1 mg/mL (4.03 mM),Sonication is recommended. Methanol: 1 mg/mL (4.03 mM),Sonication is recommended. Ethanol: 1 mg/mL (4.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0271 mL	20.1353 mL	40.2706 mL
5 mM	0.8054 mL	4.0271 mL	8.0541 mL
10 mM	0.4027 mL	2.0135 mL	4.0271 mL
50 mM	0.0805 mL	0.4027 mL	0.8054 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

- Daengrot C, et al. Eremophilane Sesquiterpenes and Diphenyl Thioethers from the Soil Fungus *Penicillium copticola* PSU-RSPG138. *J Nat Prod.* 2015 Apr 24;78(4):615-22.
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- Yurchenko, A. N. et al. Biologically active metabolites of the facultative marine fungus *Penicillium citrinum*. *Chemistry of Natural Compounds* 48.6(2013):996-998.
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