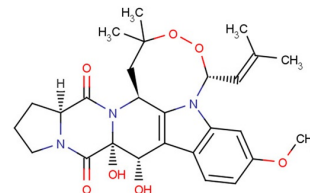


Verruculogen

Chemical Properties

CAS No.:	12771-72-1
Formula:	C ₂₀ H ₂₄ BrN ₃ O ₄
Molecular Weight:	450.33
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Verruculogen is a toxin produced mainly by <i>Penicillium</i> and <i>Aspergillus</i> spp. Verruculogen inhibits Ca ²⁺ -activated K ⁺ channels, and is an M phase inhibitor of the mammalian cell cycle.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.221 mL	11.103 mL	22.206 mL
5 mM	0.444 mL	2.221 mL	4.441 mL
10 mM	0.222 mL	1.11 mL	2.221 mL
50 mM	0.044 mL	0.222 mL	0.444 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Luciane M. Kawashima, et al. The development of an analytical method for two mycotoxins, patulin and verruculogen, and survey of their presence in commercial tomato pulp. *Brazilian Journal of Microbiology*
2. Knaus HG, et al. Tremorgenic indole alkaloids potentially inhibit smooth muscle high-conductance calcium-activated potassium channels. *Biochemistry*. 1994 May 17;33(19):5819-28.
3. Cui CB, et al. Novel mammalian cell cycle inhibitors, tryprostatins A, B and other diketopiperazines produced by *Aspergillus fumigatus*. II. Physico-chemical properties and structures. *J Antibiot (Tokyo)*. 1996 Jun;49(6):534-40.

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