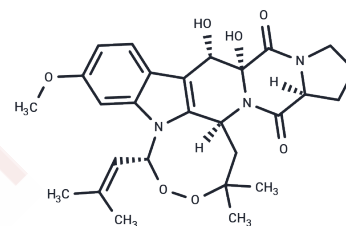


Verruculogen

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 12771-72-1 |
| Formula: | C ₂₇ H ₃₃ N ₃ O ₇ |
| Molecular Weight: | 511.57 |
| 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 | Verruculogen, a toxin primarily produced by <i>Penicillium</i> and <i>Aspergillus</i> spp., inhibits Ca ²⁺ -activated K ⁺ channels and acts as an M phase inhibitor of the mammalian cell cycle. |
| Targets(IC50) | Others,Antibacterial,Antibiotic,Potassium Channel |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.9548 mL | 9.7738 mL | 19.5477 mL |
| 5 mM | 0.391 mL | 1.9548 mL | 3.9095 mL |
| 10 mM | 0.1955 mL | 0.9774 mL | 1.9548 mL |
| 50 mM | 0.0391 mL | 0.1955 mL | 0.391 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

- 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*
- Knaus HG, et al. Tremorgenic indole alkaloids potently inhibit smooth muscle high-conductance calcium-activated potassium channels. *Biochemistry*. 1994 May 17;33(19):5819-28.
- 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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