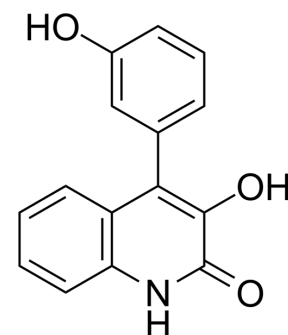


Viridicatol

Cat. No.:	HY-116474		
CAS No.:	14484-44-7		
Molecular Formula:	C ₁₅ H ₁₁ NO ₃		
Molecular Weight:	253.25		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (493.58 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9487 mL	19.7433 mL	39.4867 mL
	5 mM	0.7897 mL	3.9487 mL	7.8973 mL
	10 mM	0.3949 mL	1.9743 mL	3.9487 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (8.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (8.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Viridicatol, a quinolinone alkaloid, is isolated from the fermentation of an endophytic fungus *Penicillium* sp. R22 in *Nerium indicum*. Viridicatol has strong antifungal activity against *Staphylococcus aureus* with MIC value of 15.6 μg/mL^[1].

REFERENCES

- [1]. Ma YM, et al. A new isoquinolone alkaloid from an endophytic fungus R22 of *Nerium indicum*. *Nat Prod Res.* 2017 Apr;31(8):951-958.

Caution: Product has not been fully validated for medical applications. For research use only.

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