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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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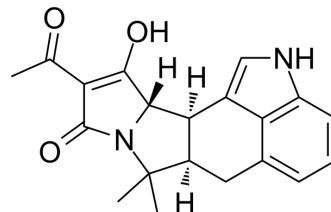
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Cyclopiazonic acid

Cat. No.:	HY-N6771
CAS No.:	18172-33-3
Molecular Formula:	C ₂₀ H ₂₀ N ₂ O ₃
Molecular Weight:	336.38
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
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 : 100 mg/mL (297.28 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.9728 mL	14.8641 mL	29.7283 mL
		5 mM		0.5946 mL	2.9728 mL	5.9457 mL
		10 mM		0.2973 mL	1.4864 mL	2.9728 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.43 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.43 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cyclopiazonic acid (CPA), a neurotoxic secondary metabolite (SM) made by <i>Aspergillus flavus</i> , is an inhibitor of endoplasmic reticulum calcium ATPase (Ca ²⁺ ATPase; SERCA) and a potent inducer of cell death in plants ^[1] .
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CUSTOMER VALIDATION

- J Clin Invest. 2022 Apr 15;132(8):e149160.
- Cell Rep. 2023 Dec 26;42(12):113573.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Chalivendra SC, et al. Cyclopiazonic Acid Is a Pathogenicity Factor for *Aspergillus flavus* and a Promising Target for Screening Germplasm for Ear Rot Resistance. *Mol Plant Microbe Interact*. 2017 May;30(5):361-373.

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

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