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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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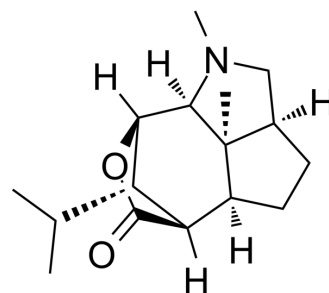
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Dendrobine

Cat. No.:	HY-N0638
CAS No.:	2115-91-5
Molecular Formula:	C ₁₆ H ₂₅ NO ₂
Molecular Weight:	263.38
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (126.55 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass		
			1 mg	5 mg	10 mg
		1 mM	3.7968 mL	18.9840 mL	37.9680 mL
		5 mM	0.7594 mL	3.7968 mL	7.5936 mL
		10 mM	0.3797 mL	1.8984 mL	3.7968 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 (9.49 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.49 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.49 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Dendrobine is an alkaloid isolated from <i>Dendrobium nobile</i> . Dendrobine possesses antiviral activity against influenza A viruses, with IC ₅₀ s of 3.39 μM, 2.16 μM and 5.32 μM for A/FM-1/1/47 (H1N1), A/Puerto Rico/8/34 H274Y (H1N1) and A/Aichi/2/68 (H3N2), respectively ^[1] .
IC ₅₀ & Target	IC ₅₀ : 3.39 μM (A/FM-1/1/47), 2.16 μM (A/Puerto Rico/8/34 H274Y), 5.32 μM (A/Aichi/2/68) ^[1]

CUSTOMER VALIDATION

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- Drug Dev Res. 2022 Apr 13.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Li R, et al. Anti-influenza A Virus Activity of Dendrobine and Its Mechanism of Action. J Agric Food Chem. 2017 May 10;65(18):3665-3674.

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

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