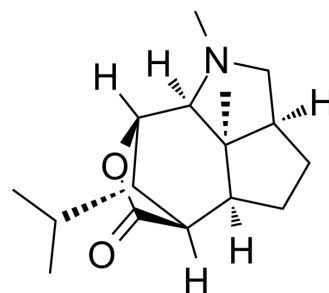


## Dendrobine

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



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 33.33 mg/mL (126.55 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (9.49 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.49 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (9.49 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dendrobine is an alkaloid isolated from <i>Dendrobium nobile</i> . Dendrobine possesses antiviral activity against influenza A viruses, with IC <sub>50</sub> 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 <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 3.39 μM (A/FM-1/1/47), 2.16 μM (A/Puerto Rico/8/34 H274Y), 5.32 μM (A/Aichi/2/68) <sup>[1]</sup>

### CUSTOMER VALIDATION

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- Drug Dev Res. 2022 Apr 13.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[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.

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

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