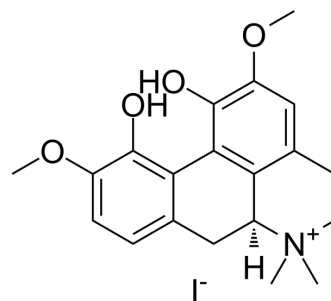


## (+)-Magnoflorine iodide

<b>Cat. No.:</b>	HY-N0334A
<b>CAS No.:</b>	4277-43-4
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>24</sub> INO <sub>4</sub>
<b>Molecular Weight:</b>	469.31
<b>Target:</b>	Fungal
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (133.17 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1308 mL	10.6539 mL	21.3079 mL
	5 mM	0.4262 mL	2.1308 mL	4.2616 mL
	10 mM	0.2131 mL	1.0654 mL	2.1308 mL

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

#### In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline  
Solubility: 10 mg/mL (21.31 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (4.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (4.43 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.43 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(+)-Magnoflorine iodide (Magnoflorine iodide), an aporphine alkaloid found in *Acorus calamus*, reduces the formation of *C. albicans* biofilm<sup>[1]</sup>. (+)-Magnoflorine iodide has anti-fungal, anti-antidiabetic and anti-oxidative activity<sup>[2]</sup>.

### REFERENCES

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[1]. Kim J, et al. Antifungal activity of magnoflorine against Candida strains. World J Microbiol Biotechnol. 2018 Oct 31;34(11):167.

[2]. Haque MA, et al. Magnoflorine Enhances LPS-Activated Pro-Inflammatory Responses via MyD88-Dependent Pathways in U937 Macrophages. Planta Med. 2018 Nov;84(17):1255-1264.

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

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