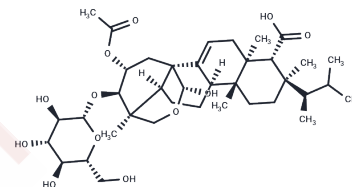


## Enfumafungin

## Chemical Properties

CAS No. :	260979-95-1
Formula:	C <sub>38</sub> H <sub>60</sub> O <sub>12</sub>
Molecular Weight:	708.88
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Enfumafungin is a triterpenoid glycoside isolated from endophytic fungi, exhibiting antifungal activity against <i>Candida</i> and <i>Aspergillus</i> species by inhibiting (1,3)- $\beta$ -D-glucan synthesis.
Targets(IC50)	Antifungal
In vitro	Enfumafungin (24-48 hours) inhibits the growth of <i>Candida</i> and <i>Aspergillus</i> with MIC values both below 0.5 $\mu$ g/mL[1].
In vivo	Enfumafungin (50-200 mg/kg), administered via intraperitoneal injection twice daily for 2 days, significantly reduced the colony-forming units (CFU) of <i>C. albicans</i> in the kidneys of mice, with an ED90 of 90 mg/kg.

## Solubility Information

Solubility	DMSO: 80 mg/mL (112.85 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (4.66 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.4107 mL	7.0534 mL	14.1068 mL
5 mM	0.2821 mL	1.4107 mL	2.8214 mL
10 mM	0.1411 mL	0.7053 mL	1.4107 mL
50 mM	0.0282 mL	0.1411 mL	0.2821 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Peláez F, et, al. The discovery of enfumafungin, a novel antifungal compound produced by an endophytic *Hormonema* species biological activity and taxonomy of the producing organisms. *Syst Appl Microbiol.* 2000 Oct; 23(3):333-43.

Onishi J, et, al. Discovery of novel antifungal (1,3)-beta-D-glucan synthase inhibitors. *Antimicrob Agents Chemother.* 2000 Feb;44(2):368-77.

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