



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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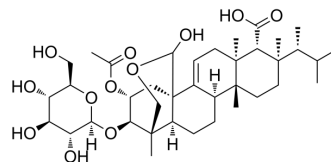
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## Enfumafungin

<b>Cat. No.:</b>	HY-N8537		
<b>CAS No.:</b>	260979-95-1		
<b>Molecular Formula:</b>	C <sub>38</sub> H <sub>60</sub> O <sub>12</sub>		
<b>Molecular Weight:</b>	708.88		
<b>Target:</b>	Fungal		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (141.07 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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	
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 (3.53 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 (3.53 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (3.53 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Enfumafungin, a triterpene glycoside, is isolated from extracts derived from fungus <i>Hormonema carpetanum</i> . Enfumafungin is an antifungal compound that is acting on the fungal cell wall, as the (1,3)-beta-D-glucan synthase inhibitor. Enfumafungin is specific for yeasts and fungi (excluding <i>Cryptococcus</i> ) and does not inhibit the growth of <i>Bacillus subtilis</i> <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	(1,3)-beta-D-glucan synthase <sup>[1]</sup>
<b>In Vitro</b>	Enfumafungin (24-48 h) has MICs of less than 0.5 µg/mL against the <i>Candida</i> and <i>Aspergillus</i> species tested and it is inactive

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against *Cryptococcus*, including the decapsulated form (MY2062)<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**

Enfumafungin (50-200 mg/kg; i.p. twice daily for 2 days) produces a significant decrease in the number of c.f.u. in kidneys of mice challenged with *C. albicans*, with an ED<sub>90</sub> of 90 mg/kg<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**REFERENCES**

[1]. 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.

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

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