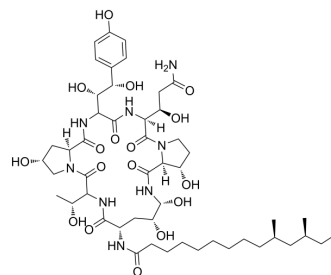


## Pneumocandin B0

<b>Cat. No.:</b>	HY-17578		
<b>CAS No.:</b>	135575-42-7		
<b>Molecular Formula:</b>	C <sub>50</sub> H <sub>80</sub> N <sub>8</sub> O <sub>17</sub>		
<b>Molecular Weight:</b>	1065.21		
<b>Target:</b>	Fungal; Antibiotic		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (93.88 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	0.9388 mL	4.6939 mL	9.3878 mL
	<b>5 mM</b>	0.1878 mL	0.9388 mL	1.8776 mL
	<b>10 mM</b>	0.0939 mL	0.4694 mL	0.9388 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: ≥ 4.55 mg/mL (4.27 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 (2.35 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (2.35 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Pneumocandin B0(L-688786), a key intermediate in the synthesis of the antifungal agent, Cancidas, has led to the identification of several materials with potential for improved performance.
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### REFERENCES

[1]. Welch CJ, et al. Preparation and evaluation of novel stationary phases for improved chromatographic purification of pneumocandin B0. J Chromatogr A. 2006 Jan

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6;1101(1-2):204-13.

[2]. Leonard WR Jr, et al. Synthesis of the antifungal beta-1,3-glucan synthase inhibitor CANCIDAS (caspofungin acetate) from pneumocandin B0. J Org Chem. 2007 Mar 30;72(7):2335-43.

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

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