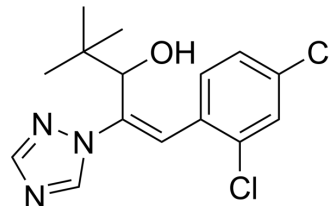


## Diniconazole

<b>Cat. No.:</b>	HY-B1948		
<b>CAS No.:</b>	83657-24-3		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	326.22		
<b>Target:</b>	Bacterial		
<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

#### In Vitro

DMSO : ≥ 100 mg/mL (306.54 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.0654 mL	15.3271 mL	30.6542 mL
	5 mM	0.6131 mL	3.0654 mL	6.1308 mL
	10 mM	0.3065 mL	1.5327 mL	3.0654 mL

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

#### In Vivo

- Add each solvent one by one: corn oil  
Solubility: 10 mg/mL (30.65 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: ≥ 2.5 mg/mL (7.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Diniconazole is a newly developed fungicide strongly inhibited lanosterol 14 alpha-demethylation catalyzed by a yeast cytochrome P-450.

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## REFERENCES

[1]. Yoshida Y, et al. Stereo-selective interaction of enantiomers of diniconazole, a fungicide, with purified P-450/14DM from yeast. Biochem Biophys Res Commun. 1986 May 29;137(1):513-519.

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

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