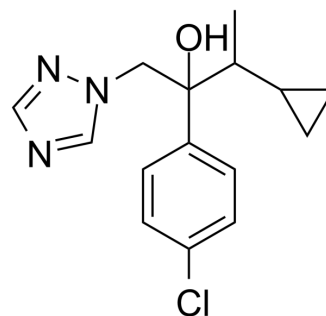


## Cyproconazole

<b>Cat. No.:</b>	HY-A0277	
<b>CAS No.:</b>	94361-06-5	
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>18</sub> ClN <sub>3</sub> O	
<b>Molecular Weight:</b>	291.78	
<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 (342.72 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.4272 mL	17.1362 mL	34.2724 mL
	5 mM		0.6854 mL	3.4272 mL	6.8545 mL
	10 mM		0.3427 mL	1.7136 mL	3.4272 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.5 mg/mL (8.57 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (8.57 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.57 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Cyproconazole is a triazole fungicide that is used agriculturally for protection of crops against a wide variety of fungal pathogens. In vitro: Cyproconazole has been shown to cause a dose dependent inhibition of progesterone production in human placental cells in vitro. cyproconazole exhibited the lowest capacity to increase CYP1A1 and were not able to activate the AhR in the transactivation assay. [1] In vivo: Cyproconazole, a triazole fungicide, causes hepatocellular adenomas and carcinomas in CD-1 mice at dose levels of 100 and 200 ppm. In wild-type mice, 200 ppm cyproconazole caused liver hypertrophy, increased liver weight and cell proliferation, single-cell necrosis and fat vacuolation. [2]

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## REFERENCES

- [1]. Rieke S et al. Combination effects of (tri)azole fungicides on hormone production and xenobiotic metabolism in a humanplacental cell line. Int J Environ Res Public Health. 2014 Sep 17;11(9):9660-79.
- [2]. Peffer RC et al. Mouse liver effects of cyproconazole, a triazole fungicide: role of the constitutive androstane receptor. Toxicol Sci. 2007 Sep;99(1):315-25.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA