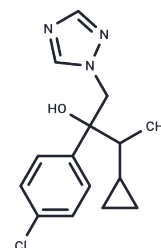


Cyproconazole

Chemical Properties

CAS No. :	94361-06-5
Formula:	C ₁₅ H ₁₈ ClN ₃ O
Molecular Weight:	291.78
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cyproconazole is a triazole fungicide. It is used agriculturally for protection of crops against a wide variety of fungal pathogens.
Targets(IC50)	Antibacterial,Antifungal
In vitro	Cyproconazole showed the lowest capacity to increase CYP1A1. Cyproconazole causes a dose dependent inhibition of progesterone production in human placental cells in vitro. However, they were not able to activate the AhR in the transactivation assay [1].
In vivo	Cyproconazole 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, single-cell necrosis, increased liver weight and cell proliferation, and fat vacuolation [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (171.36 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: 2 mg/mL (6.85 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

	1mg	5mg	10mg
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
50 mM	0.0685 mL	0.3427 mL	0.6854 mL

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

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.

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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