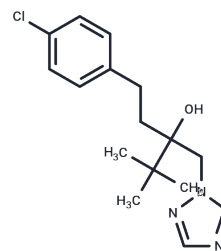


Tebuconazole

Chemical Properties

CAS No. :	107534-96-3
Formula:	C ₁₆ H ₂₂ ClN ₃ O
Molecular Weight:	307.82
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	Tebuconazole is an agricultural azole fungicide. It can also inhibit CYP51 (IC50s: 0.9 and 1.3 μ M for <i>Candida albicans</i> CYP51 and truncated <i>Homo sapiens</i> CYP51, respectively).
Targets(IC50)	Antifungal,Cytochromes P450

Solubility Information

Solubility	DMSO: 4.17 mg/mL (13.55 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: 1 mg/mL (3.25 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	3.2487 mL	16.2433 mL	32.4865 mL
5 mM	0.6497 mL	3.2487 mL	6.4973 mL
10 mM	0.3249 mL	1.6243 mL	3.2487 mL
50 mM	0.065 mL	0.3249 mL	0.6497 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

Warrilow AG, et al. Azole affinity of sterol 14 α -demethylase (CYP51) enzymes from *Candida albicans* and *Homo sapiens*. *Antimicrob Agents Chemother*. 2013 Mar;57(3):1352-60.

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