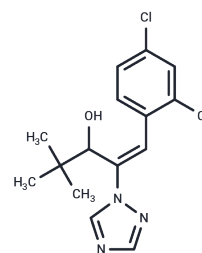


Diniconazole

Chemical Properties

CAS No. :	83657-24-3
Formula:	C ₁₅ H ₁₇ Cl ₂ N ₃ O
Molecular Weight:	326.22
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	Diniconazole (Rac-diniconazole) is a fungicide. It is known as a plant hormone abscisic acid (ABA) catabolic inhibitor, and acts as a potent competitive inhibitor of recombinant Arabidopsis ABA 8'-hydroxylase, CYP707A3.
Targets(IC50)	Antibacterial, Antifungal

Solubility Information

Solubility	H ₂ O: 0.67 mg/mL (2.05 mM), Sonication is recommended. DMSO: 245 mg/mL (751.03 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: 10 mg/mL (30.65 mM), Suspension. 10% DMSO+90% Saline: < 10 mg/mL (30.65 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.0654 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
50 mM	0.0613 mL	0.3065 mL	0.6131 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

Yoshida Y , Aoyama Y , Takano H , et al. Stereo-selective interaction of enantiomers of diniconazole, a fungicide, with purified P-450/14DM from Yeast[J]. Biochemical and Biophysical Research Communications, 1986, 137(1):513-519.

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