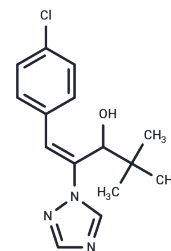


Uniconazole

Chemical Properties

CAS No. :	83657-22-1
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	Uniconazole is a plant growth regulator that inhibit cytochrome P450 707As (Ki=68 nM). CYP707As is a major ABA catabolic enzyme that catabolize Abscisic acid, accordingly suppress gibberellin and sterol biosynthesis.
Targets(IC50)	Cytochromes P450,ROS Kinase

Solubility Information

Solubility	DMSO: 45 mg/mL (154.23 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble) (< 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

Saito S, et al. A plant growth retardant, uniconazole, is a potent inhibitor of ABA catabolism in Arabidopsis. Biosci Biotechnol Biochem. 2006 Jul;70(7):1731-9.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481