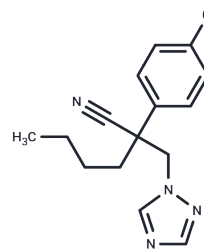


Myclobutanil

Chemical Properties

CAS No. :	88671-89-0
Formula:	C ₁₅ H ₁₇ ClN ₄
Molecular Weight:	288.78
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	Myclobutanil (Systhane) is a triazole chemical used as a fungicide. It is a steroid demethylation inhibitor, specifically inhibiting ergosterol biosynthesis. Ergosterol is a critical component of fungal cell membranes.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 50 mg/mL (173.14 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 (6.93 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	3.4628 mL	17.3142 mL	34.6284 mL
5 mM	0.6926 mL	3.4628 mL	6.9257 mL
10 mM	0.3463 mL	1.7314 mL	3.4628 mL
50 mM	0.0693 mL	0.3463 mL	0.6926 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

Yan J, et al. Chirality. 2014 Jan;26(1):51-5.

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