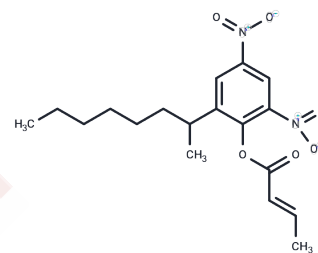


Meptyldinocap

Chemical Properties

CAS No. :	131-72-6
Formula:	C ₁₈ H ₂₄ N ₂ O ₆
Molecular Weight:	364.39
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Meptyldinocap (2,4-DNOPC) functions as an innovative fungicide against powdery mildew (<i>Erysiphe necator</i>), exhibiting both protectant and post-infective properties.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 150 mg/mL (411.65 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: 4 mg/mL (10.98 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	2.7443 mL	13.7216 mL	27.4431 mL
5 mM	0.5489 mL	2.7443 mL	5.4886 mL
10 mM	0.2744 mL	1.3722 mL	2.7443 mL
50 mM	0.0549 mL	0.2744 mL	0.5489 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

Gilardi G , Gullino M L , Garibaldi A . Effect of fungicides and of biocontrol agents against powdery mildew of turnip [J]. Communications in agricultural and applied biological sciences, 2008, 73(2):21-29.

Zhang Z, Shan W, Jian Q et al. Analytical method for the determination of meptyldinocap as the 2,4-dinitro-octylphenol metabolite in cucumber and soil using LC-MS/MS and a study of the residues in a Chinese cucumber field ecosystem. Pest Manag Sci. 2014 Jan;70(1):97-102.

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