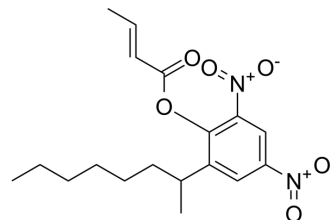


Meptyldinocap

Cat. No.:	HY-17522		
CAS No.:	131-72-6		
Molecular Formula:	C ₁₈ H ₂₄ N ₂ O ₆		
Molecular Weight:	364.39		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 150 mg/mL (411.65 mM)
 Ethanol : 100 mg/mL (274.43 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (6.86 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (6.86 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Meptyldinocap (2,4-DNOPC) is a novel powdery mildew (*Erysiphe necator*) fungicide which shows protectant and post-infective activities.

REFERENCES

- [1]. Zhang Z, 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

Caution: Product has not been fully validated for medical applications. For research use only.

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