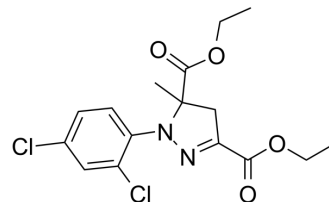


Mefenpyr-diethyl

Cat. No.:	HY-136376
CAS No.:	135590-91-9
Molecular Formula:	C ₁₆ H ₁₈ Cl ₂ N ₂ O ₄
Molecular Weight:	373.23
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (267.93 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.6793 mL	13.3966 mL	26.7931 mL
				5 mM	0.5359 mL	2.6793 mL	5.3586 mL
				10 mM	0.2679 mL	1.3397 mL	2.6793 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.70 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.70 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.70 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Mefenpyr-diethyl is an herbicide safener, which protects crops against herbicide injury ^[1] .
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REFERENCES

[1]. Cataneo, A.C., et al. Mefenpyr-diethyl action on fenoxaprop-p-ethyl detoxification in wheat varieties. *Planta Daninha*, Viçosa-MG, 2013. 31(2): 387-393.

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

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