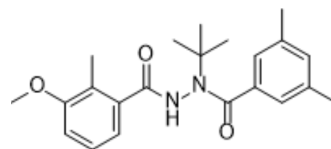


Methoxyfenozide

Cat. No.:	HY-117386		
CAS No.:	161050-58-4		
Molecular Formula:	C ₂₂ H ₂₈ N ₂ O ₃		
Molecular Weight:	368.47		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (271.39 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.7139 mL	13.5696 mL	27.1392 mL
	5 mM	0.5428 mL	2.7139 mL	5.4279 mL
	10 mM	0.2714 mL	1.3570 mL	2.7139 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 (6.78 mM); Suspended solution; Need ultrasonic			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.78 mM); Suspended solution; Need ultrasonic			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.78 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Methoxyfenozide, a diacylhydrazine insecticide, selectively binds to lepidopteran ecdysone receptors (EcRs) over dipteran EcRs with K _d values of 0.5 and 124 nM, respectively. Methoxyfenozide is lethal to neonatal larvae of <i>S. exigua</i> , <i>S. frugiperda</i> , <i>T. ni</i> , <i>O. nubilalis</i> , <i>L. pomonella</i> , <i>H. zea</i> , and <i>H. virescens</i> (LC ₅₀ s=0.35, 0.2, 0.11, 0.18, 0.21, 0.79, and 3.12 mg/L, respectively).
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REFERENCES

[1]. Trisyono, A., et al. Effect of the nonsteroidal ecdysone agonists, methoxyfenozide and tebufenozide, on the European corn borer (Lepidoptera: Pyralidae). J. Econ. Entomol. 90(6), 1486-1492 (1997).

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

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