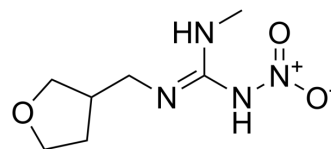


Dinotefuran

Cat. No.:	HY-B0827		
CAS No.:	165252-70-0		
Molecular Formula:	C ₇ H ₁₄ N ₄ O ₃		
Molecular Weight:	202.21		
Target:	Parasite; nAChR		
Pathway:	Anti-infection; Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (247.27 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.9454 mL	24.7268 mL	49.4535 mL
		5 mM	0.9891 mL	4.9454 mL	9.8907 mL
10 mM		0.4945 mL	2.4727 mL	4.9454 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (123.63 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Dinotefuran is an insecticide of the neonicotinoid class, its mechanism of action involves disruption of the insect's nervous system by inhibiting nicotinic acetylcholine receptors. Target: nAChR, Antiparasitic
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CUSTOMER VALIDATION

- Insect Biochem Mol Biol. 2023 May 12;103958.
- Insects. 2021, 12(10), 898.
- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Liu T, et al. Biochemical and genetic toxicity of dinotefuran on earthworms (*Eisenia fetida*). Chemosphere. 2017 Jun;176:156-164.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA