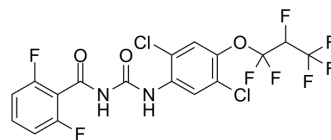


Lufenuron

Cat. No.:	HY-115584	
CAS No.:	103055-07-8	
Molecular Formula:	C ₁₇ H ₈ Cl ₂ F ₈ N ₂ O ₃	
Molecular Weight:	511.15	
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 : 125 mg/mL (244.55 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.9564 mL	9.7819 mL	19.5637 mL
		5 mM	0.3913 mL	1.9564 mL	3.9127 mL
10 mM		0.1956 mL	0.9782 mL	1.9564 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: ≥ 2.08 mg/mL (4.07 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.07 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Lufenuron is a lipophilic benzoylurea insecticide and a chitin synthesis inhibitor that can be used for flea and fish lice control. Lufenuron inhibits moulting of arthropods ^{[1][2]} .
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REFERENCES

- [1]. T C M Brock, et al. Toxicity of Sediment-Bound Lufenuron to Benthic Arthropods in Laboratory Bioassays. *Aquat Toxicol.* 2018 May;198:118-128.
- [2]. Cai Wang, et al. Lufenuron Suppresses the Resistance of Formosan Subterranean Termites (Isoptera: Rhinotermitidae) to Entomopathogenic Bacteria. *J Econ Entomol.*

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

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