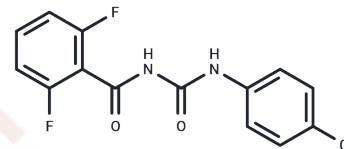


Diflubenzuron

Chemical Properties

CAS No. :	35367-38-5
Formula:	C ₁₄ H ₉ ClF ₂ N ₂ O ₂
Molecular Weight:	310.68
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Diflubenzuron (Larvakil) is a benzoyl-urea insecticide, found to be a potent inhibitor of melanosome synthesis in mouse melanoma cells. Diflubenzuron has also been shown to inhibit TCDD-induced CYP1A1 expression in HepG2 cells.
Targets(IC50)	Others,Cytochromes P450

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 50 mg/mL (160.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2187 mL	16.0937 mL	32.1875 mL
5 mM	0.6437 mL	3.2187 mL	6.4375 mL
10 mM	0.3219 mL	1.6094 mL	3.2187 mL
50 mM	0.0644 mL	0.3219 mL	0.6437 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Norman J O, Meola S M. Inhibition of melanogenesis in B16-F1 melanoma cells after exposure to diflubenzuron.[J]. Antimicrobial Agents & Chemotherapy, 1983, 23(2):313-6.
- Li Y, Sun H, Tian Z, et al. The determination of *Plutella xylostella* (L.) GSTs (PxGSTs) involved in the detoxification metabolism of Tolfenpyrad. Pest Management Science. 2020
- Ledirac N, et al. Diflubenzuron, a benzoyl-urea insecticide, is a potent inhibitor of TCDD-induced CYP1A1 expression in HepG2 cells.[J]. Toxicol Appl Pharmacol, 2000, 164(3):273-279.
- Li Y, Sun H, Tian Z, et al. The determination of *Plutella xylostella* (L.) GSTs (PxGSTs) involved in the detoxification metabolism of Tolfenpyrad[J]. Pest Management Science. 2020.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481