

## Flucycloxuron

## Chemical Properties

CAS No.:	113036-88-7
Formula:	C <sub>25</sub> H <sub>20</sub> ClF <sub>2</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	483.9
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Flucycloxuron is a chitin synthesis inhibitor used as a pesticide. In insect models, the inhibitor has been shown to affect several reproductive events such as the duration of preoviposition.
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## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.067 mL	10.333 mL	20.665 mL
5 mM	0.413 mL	2.067 mL	4.133 mL
10 mM	0.207 mL	1.033 mL	2.067 mL
50 mM	0.041 mL	0.207 mL	0.413 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Rouabhi R, Berrebbah H, Djebar MR. Evaluation of toxicity of two pesticides: flucycloxuron and diflubenzuron on a cellular model, *Paramecium* sp. *Commun Agric Appl Biol Sci.* 2006;71(2 Pt A):83-90. PubMed PMID: 17390777.
2. Sun R, Wang Z, Li Y, Xiong L, Liu Y, Wang Q. Design, synthesis, and insecticidal evaluation of new benzoylureas containing amide and sulfonate groups based on the sulfonylurea receptor protein binding site for diflubenzuron and glibenclamide. *J Agric Food Chem.* 2013 Jan 23;61(3):517-22. doi: 10.1021/jf304468b. Epub 2013 Jan 10. PubMed PMID: 23305601.
3. Hami M, Taibi F, Soltani-Mazouni N. Effects of flucycloxuron, a chitin synthesis inhibitor, on reproductive events and thickness of chorion in mealworms. *Commun Agric Appl Biol Sci.* 2004;69(3):249-55. PubMed PMID: 15759421.
4. Sun R, Li Y, Xiong L, Liu Y, Wang Q. Design, synthesis, and insecticidal evaluation of new benzoylureas containing isoxazoline and isoxazole group. *J Agric Food Chem.* 2011 May 11;59(9):4851-9. doi: 10.1021/jf200395g. Epub 2011 Mar 25. PubMed PMID: 21438557.

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