

Chlorfluazuron

Chemical Properties

CAS No.:	71422-67-8
Formula:	C ₂₀ H ₉ Cl ₃ F ₅ N ₃ O ₃
Molecular Weight:	540.65
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Chlorfluazuron, a chitin synthesis inhibitor, is commonly used as an insect growth regulator for controlling the major insect pests in crops.
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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	1.850 mL	9.248 mL	18.496 mL
5 mM	0.370 mL	1.850 mL	3.699 mL
10 mM	0.185 mL	0.925 mL	1.850 mL
50 mM	0.037 mL	0.185 mL	0.370 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. Ganguly P, Barik SR, Patra S, Roy S, Bhattacharyya A. Persistence of chlorfluazuron in cabbage under different agro-climatic conditions of India and its risk assessment. Environ Toxicol Chem. 2017 Nov;36(11):3028-3033. doi: 10.1002/etc.3872. Epub 2017 Jul 17. PubMed PMID: 28574603.
2. Cho S, Kim J, Lee S, Kim TH. Crystal structure of chlorfluazuron. Acta Crystallogr E Crystallogr Commun. 2015 Jan 1;71(Pt 1):o55. doi: 10.1107/S2056989014026632. eCollection 2015 Jan 1. PubMed PMID: 25705506; PubMed Central PMCID: PMC4331875.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481