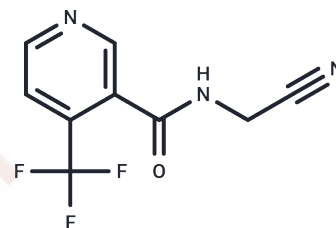


Flonicamid

Chemical Properties

CAS No. :	158062-67-0
Formula:	C ₉ H ₆ F ₃ N ₃ O
Molecular Weight:	229.16
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	Flonicamid (N-(cyanomethyl)-4-(trifluoromethyl)nicotinamide), a pyridinecarboxamide insecticide, inhibits aphid (<i>M. persicae</i>) salivation and sap ingestion during feeding on Japanese radish leaves. It induces toxicity in the aphid species <i>A. gossypii</i> , <i>L. erysimi</i> , <i>R. padi</i> , and <i>S. graminum</i> and rats.
Targets(IC50)	Others,Parasite

Solubility Information

Solubility	DMSO: 50 mg/mL (218.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.73 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3638 mL	21.8188 mL	43.6376 mL
5 mM	0.8728 mL	4.3638 mL	8.7275 mL
10 mM	0.4364 mL	2.1819 mL	4.3638 mL
50 mM	0.0873 mL	0.4364 mL	0.8728 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

Ren, M., Niu, J., Hu, B., et al. Block of Kir channels by flonicamid disrupts salivary and renal excretion of insect pests. *Insect Biochem. Mol. Biol.* 99, 17-26 (2018).

Morita, M., Ueda, T., Yoneda, T., et al. Flonicamid, a novel insecticide with a rapid inhibitory effect on aphid feeding. *Pest. Manag. Sci.* 63(10), 969-973 (2007).

Morita, M., Yoneda, T., and Akiyoshi, N. Research and development of a novel insecticide, flonicamid. *J. Pestic. Sci.* 39(3), 179-180 (2014).

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