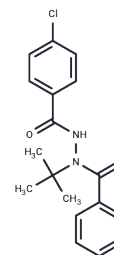


## Halofenozide

## Chemical Properties

CAS No. :	112226-61-6
Formula:	C <sub>18</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	330.81
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	Halofenozide is an ecdysteroid agonist and used as a pesticide.
Targets(IC50)	Others
In vivo	The extremely slow excretion of the product in Colorado potato beetle (CPB) suggested that this fact must contribute to the prolonged action of halofenozide on fecundity at its highest dose of 20 µg per adult. Retention of halofenozide in the reproductive system of males of AMF and CPB was low, whereas high levels of radioactivity were recovered in females (ovaries + eggs) [1]. Topical application of 5 µg of the non-steroidal ecdysone agonist RH-0345 (halofenozide) in 0.1 µl DMSO to the primary reproductives during the 2000 season resulted in a significant reduction in the number of eggs laid. There was however complete recovery of the treated females In 2001 both topical application as well as feeding methods were tried. Significant effects were observed only in the topical treatment group, perhaps because of inconsistency in feeding. In this group, total progeny, the number of ovarioles in ovaries and the size of the female's corpora allata (CA) were all significantly reduced [2].

## Solubility Information

Solubility	DMSO: 30 mg/mL (90.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.0229 mL	15.1144 mL	30.2288 mL
5 mM	0.6046 mL	3.0229 mL	6.0458 mL
10 mM	0.3023 mL	1.5114 mL	3.0229 mL
50 mM	0.0605 mL	0.3023 mL	0.6046 mL

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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

- Farin s GP, et al. Action and pharmacokinetics of a novel insect growth regulator, halofenozide, in adult beetles of *aubeonymus mariaefrancisca* and *leptinotarsa decemlineata*. *Arch Insect Biochem Physiol*. 1999;41(4):201-13.
- 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
- Raina AK, et al. Ecdysone agonist halofenozide affects corpora allata and reproductive physiology of the Formosan subterranean termite, *Coptotermes formosanus*. *J Insect Physiol*. 2003 Jul;49(7):677-83.
- 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.

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