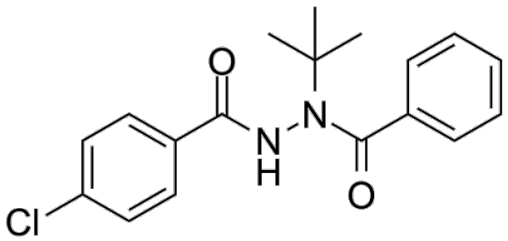
Product Data Sheet

Product Name: Halofenozide
Cat. No.: GC70382

Chemical Properties

Cas. No.	112226-61-6		
Formula	$C_{18}H_{19}ClN_2O_2$	M.Wt	330.81
Solubility	DMSO : 125 mg/mL (377.86 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Halofenozide (RH-0345) is an ecdysteroid agonist. RH-0345 belongs to a new group of insect growth regulators (IGRs) with a benzoylhydrazine structure that mimic the action of the natural insect molting hormone 20-hydroxyecdysone.

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Halofenozide (RH-0345) reduces both growth and development of oocytes in vitro [1].

After topical application of Halofenozide (RH-0345; 5 and 10 µg) on adult females, the highest dose (10 µg) reduces significantly the reproductive parameters scored: namely the oviposition period, the fecundity and the egg viability[1].
Halofenozide at the two doses tested (5 and 10 µg) causes smaller eggs with a decrease in length, width and volume[1].

References:
[1]. Faïza Taïbi, et al. Effect of ecdysone agonist RH-0345 on reproduction of mealworm, *Tenebrio molitor*. Comp Biochem Physiol C Toxicol Pharmacol. 2003 Jul;135C(3):257-67.

Caution: Product has not been fully validated for medical applications. For research use only.
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