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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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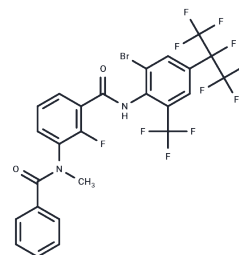
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Broflanilide

Chemical Properties

CAS No. :	1207727-04-5
Formula:	C ₂₅ H ₁₄ BrF ₁₁ N ₂ O ₂
Molecular Weight:	663.29
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Broflanilide is metabolized to desmethyl-broflanilide, which is a potent antagonist at the insect resistant-to-dieldrin GABA receptor and inhibits <i>S. litura</i> RDL GABAR with IC ₅₀ of 1.3 nM.
Targets(IC ₅₀)	GABA Receptor
In vitro	Broflanilide is an insecticide and metabolized to desmethyl-broflanilide. Desmethyl-broflanilide shows weak activity against human GABAA $\alpha 1\beta 2\gamma 2$ receptor, the mammalian GABAA $\alpha 1\beta 3\gamma 2$ receptor and human glycine receptor (GlyR) $\alpha 1\beta$ with IC ₅₀ s >3 μ M, and less potently inhibits GlyR $\alpha 1$ -A288G β and GlyR $\alpha 1$ -A288G with IC ₅₀ s of 0.706 and 0.149 μ M respectively.

Solubility Information

Solubility	DMSO: 225 mg/mL (339.22 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5076 mL	7.5382 mL	15.0764 mL
5 mM	0.3015 mL	1.5076 mL	3.0153 mL
10 mM	0.1508 mL	0.7538 mL	1.5076 mL
50 mM	0.0302 mL	0.1508 mL	0.3015 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.

Reference

Zhang S W, Zeng Q H, Yang H, et al. Sublethal and transgenerational effects of broflanilide on *Myzus persicae* (Sulzer) (Hemiptera: Aphididae). *Crop Protection*. 2023: 106421.

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