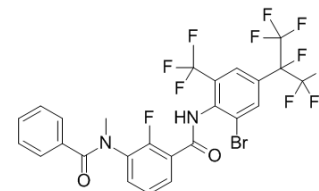


Broflanilide

Cat. No.:	HY-108689
CAS No.:	1207727-04-5
Molecular Formula:	C ₂₅ H ₁₄ BrF ₁₁ N ₂ O ₂
Molecular Weight:	663.28
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Broflanilide is a potential insecticide and metabolized to desmethyl-broflanilide, which is a potent antagonist at the insect resistant-to-dieldrin (RDL) GABA receptor , and inhibits <i>S. litura</i> RDL GABAR, with an IC ₅₀ value of 1.3 nM.
In Vitro	Broflanilide is an insecticide and metabolized to desmethyl-broflanilide, which is a potent and selective antagonist at the insect resistant-to-dieldrin (RDL) GABA receptor, and inhibits <i>S. litura</i> RDL GABAR, with an IC ₅₀ value of 1.3 nM. Desmethyl-broflanilide shows weak activity against human GABA _A α1β2γ2 receptor, the mammalian GABA _A α1β3γ2 receptor and human glycine receptor (GlyR) α1β with IC ₅₀ s of >3 μM, and less potently inhibits GlyR α1-A288Gβ and GlyR α1-A288G (IC ₅₀ s, 0.706, 0.149 μM) ^[1] .

REFERENCES

[1]. Nakao T, et al. Broflanilide: A meta-diamide insecticide with a novel mode of action. *Bioorg Med Chem.* 2016 Feb 1;24(3):372-7.

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

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