

Product Data Sheet

Product Name: Lotilaner
Cat. No.: GC65292

Chemical Properties

Cas. No. 1369852-71-0

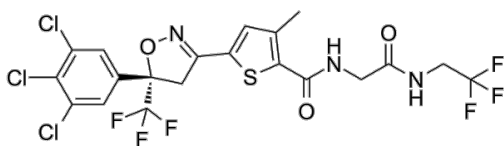
Formula C₂₀H₁₄Cl₃F₆N₃O₃S M.Wt 596.76

Solubility DMSO : ≥ 100 mg/mL (167.57 mM) Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure



Background

Lotilaner is a parasiticide, acts as a potent non-competitive antagonist of insects GABACl receptors, with an IC₅₀ of 23.84 nM for Drosophila melanogaster GABA receptor. No effect on a dog GABAA receptor[1].

Lotilaner shows IC₅₀s of 38.25 $\pm$ 3.75, 52.40 $\pm$ 4.54, 36.79 $\pm$ 4.39 nM for Drosophila melanogaster dieldrin/fipronil-resistant forms (DmR2), Lepeophtheirus salmonis (Ls) and Rhipicephalus microplus (Rm) GABACl receptors, respectively[1].

[1]. Lotilaner, et al. The novel isoxazoline ectoparasiticide lotilaner (Credelio™): a non-competitive

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

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antagonist specific to invertebrates γ -aminobutyric acid-gated chloride channels (GABACIs). Parasit Vectors. 2017 Nov 1;10(1):530.

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