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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

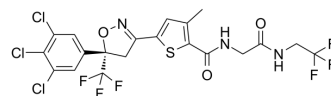
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Lotilaner

Cat. No.:	HY-116564
CAS No.:	1369852-71-0
Molecular Formula:	C ₂₀ H ₁₄ Cl ₃ F ₆ N ₃ O ₃ S
Molecular Weight:	596.76
Target:	Parasite; GABA Receptor
Pathway:	Anti-infection; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (167.57 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.6757 mL	8.3786 mL	16.7572 mL
	5 mM		0.3351 mL	1.6757 mL	3.3514 mL
	10 mM		0.1676 mL	0.8379 mL	1.6757 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (4.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (3.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Lotilaner is a parasiticide, acts as a potent non-competitive antagonist of insects GABACl receptors, with an IC ₅₀ of 23.84 nM for Drosophila melanogaster GABA receptor. No effect on a dog GABAA receptor ^[1] .
IC ₅₀ & Target	IC ₅₀ : 23.84 nM (DmS-GABA), 38.25 nM (DmR2-GABA), 52.40 nM (Ls-GABA1), 36.79 nM (Rm-GABA) ^[1]
In Vitro	Lotilaner shows IC ₅₀ s of 38.25 ± 3.75, 52.40 ± 4.54, 36.79 ± 4.39 nM for Drosophila melanogaster dieldrin/fipronil-resistant forms (DmR2), Lepeophtheirus salmonis (Ls) and Rhipicephalus microplus (Rm) GABACl receptors, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lotilaner, et al. The novel isoxazoline ectoparasiticide lotilaner (Credelio™): a non-competitive antagonist specific to invertebrates γ -aminobutyric acid-gated chloride channels (GABACls). Parasit Vectors. 2017 Nov 1;10(1):530.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA