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PRODUCT INFORMATION



Fluralaner

Item No. 22061

CAS Registry No.: 864731-61-3
Formal Name: 4-[5-(3,5-dichlorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]-2-methyl-N-[2-oxo-2-[(2,2,2-trifluoroethyl)amino]ethyl]-benzamide

Synonyms: A-1443, AH 252723

MF: C₂₂H₁₇Cl₂F₆N₃O₃

FW: 556.3

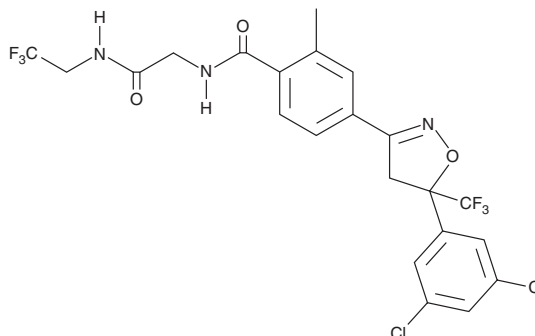
Purity: ≥98%

UV/Vis.: λ_{max}: 265 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Fluralaner is supplied as a crystalline solid. A stock solution may be made by dissolving the fluralaner in the solvent of choice. Fluralaner is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of fluralaner in these solvents is approximately 30 mg/ml.

Fluralaner is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, fluralaner should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Fluralaner has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Fluralaner is an isoxazoline ectoparasiticide.^{1,2} It potently and selectively inhibits binding of the GABA receptor channel blocker [³H]4'-ethynyl-4-n-propylbicycloorthobenzoate (EBOB) to housefly head membranes, with an IC₅₀ value of 455 pM as compared to an IC₅₀ value of >10 μM for rat brain membranes.¹ Fluralaner blocks GABA- and glutamate-induced chloride currents in *Xenopus* oocytes expressing housefly MdGBC1 or MdGluCl channels (IC₅₀s = 5.32 and 79.9 nM, respectively) but has no effect on rat GABA Cl channels (IC₅₀ = >30,000 nM). It has insecticidal and acaricidal activity against *C. felis*, *S. calcitrans*, *L. cuprina*, *A. aegypti*, *R. microplus*, *R. sanguineus*, and *O. moubata* at concentrations of 0.000012 to 1 ppm.² Formulations containing fluralaner have been used to treat parasitic infections in dogs, cats, and hedgehogs.³⁻⁵

References

1. Ozoe, Y., Asahi, M., Ozoe, F., et al. *Biochem. Biophys. Res. Commun.* **391**(1), 744-749 (2010).
2. Gassel, M., Wolf, C., Noack, S., et al. *Insect Biochem. Mol. Biol.* **45**, 111-124 (2014).
3. Romero, C., Waisburdt, G., Pineda, J., et al. *Vet. Dermatol.* (2017).
4. Geurden, T., Borowski, S., Wozniakiewicz, M., et al. *Parasit. Vectors* **10**(1), 319 (2017).
5. Loza, A., Talaga, A., Herbas, G., et al. *Parasit. Vectors* **10**(1), 344 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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