Fluralaner-13C2,15N,d3

Cat. No.: HY-16973S

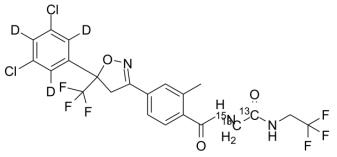
Molecular Formula: $C_{20}{}^{13}C_2H_{14}D_3Cl_2F_6N_2{}^{15}NO_3$

Molecular Weight: 562.28

Target: Parasite

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fluralaner-13C2,15N,d3 is the deuterium, 13C-, and 15-labeled Fluralaner. Fluralaner (INN) is a systemic insecticide and acaricide Fluralaner through potent blockage of GABA and L-glutamate gated chloride channels.
IC_{50} & Target	Mite
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[9]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-223.

[2]. Walther FM, et al. Safety of fluralaner, a novel systemic antiparasitic drug, in MDR1(-/-) Collies after oral administration. Parasit Vectors. 2014 Mar 6;7:86.

[3]. Williams H, et al. Fluralaner, a novel isoxazoline, prevents flea (Ctenocephalides felis) reproduction in vitro and in asimulated home environment. Parasit Vectors. 2014 Jun 19;7:275.

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