Amitraz-d_3

Cat. No.: HY-B1111S1

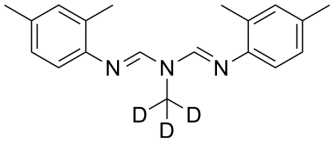
Molecular Formula: $C_{19}H_{20}D_3N_3$

Molecular Weight: 296.42

Target: Adrenergic Receptor; Parasite; Monoamine Oxidase; Isotope-Labeled Compounds

Pathway: GPCR/G Protein; Neuronal Signaling; Anti-infection; Others

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



BIOLOGICAL ACTIVITY

Description	Amitraz-d_3 is the deuterium labeled Amitraz. Amitraz is a non-systemic acaricide and insecticide, with alpha-adrenergic agonist activity, interaction with octopamine receptors of the central nervous system and inhibition of monoamine oxidases and prostaglandin synthesis.
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[1]. 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 Feb;53(2):211-216.

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