Methoxyfenozide-d₉

HY-117386S

2469014-53-5

C₂₂H₁₉D₉N₂O₃

Isotope-Labeled Compounds

377.52

Others

Analysis.

D

BIOLOGICAL ACTIVITY	
BIOLOGICAL ACTIVITY	
Description	Methoxyfenozide-d ₉ is the deuterium labeled Methoxyfenozide[1]. Methoxyfenozide, a diacylhydrazine insecticide, selectively binds to lepidopteran ecdysone receptors (EcRs) over dipteran EcRs with Kd values of 0.5 and 124 nM, respectively. Methoxyfenozide is lethal to neonatal larvae of S. exigua, S. frugiperda, T. ni, O. nubilalis, L. pomonella, H. zea, and H. virescens (LC50s=0.35, 0.2, 0.11, 0.18, 0.21, 0.79, and 3.12 mg/L, respectively)[2].
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.

Please store the product under the recommended conditions in the Certificate of

[2]. Trisyono, A., et al. Effect of the nonsteroidal ecdysone agonists, methoxyfenozide and tebufenozide, on the European corn borer (Lepidoptera: Pyralidae). J. Econ. Entomol. 90(6), 1486-1492 (1997).

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

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Cat. No.:

CAS No.:

Target:

Pathway:

Storage:

Molecular Formula:

Molecular Weight: