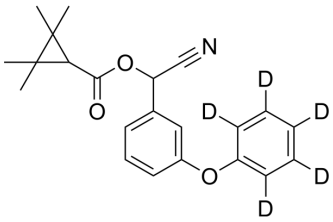
Fenpropathrin-d5

Cat. No.:	HY-123178S
Molecular Formula:	$C_{22}H_{18}D_5NO_3$
Molecular Weight:	354.45
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Fenpropathrin-d_5 is the deuterium labeled Fenpropathrin. Fenpropathrin is a synthetic pyrethroid insecticide in agriculture. Fenpropathrin may induces parkinsonian symptoms progressively[1].
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;53(2):211-216.

[2]. Jing Xiong, et al. Fenpropathrin, a Widely Used Pesticide, Causes Dopaminergic Degeneration. Mol Neurobiol. 2016 Mar;53(2):995-1008.

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