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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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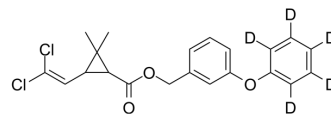
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Permethrin-d₅

Cat. No.:	HY-B0887S		
CAS No.:	1794760-19-2		
Molecular Formula:	C ₂₁ H ₁₅ D ₅ Cl ₂ O ₃		
Molecular Weight:	396.32		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Permethrin-d ₅ (NRDC-143-d5) is the deuterium labeled Permethrin. Permethrin (NRDC-143) is an insecticide, acaricide, and insect repellent; functions as a neurotoxin, affecting neuron membranes by prolonging sodium channel activation[1][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;53(2):211-216.
- [2]. Xiao X, et al. Exposure to permethrin promotes high fat diet-induced weight gain and insulin resistance in male C57BL/6J mice. *Food Chem Toxicol.* 2018 Jan;111:405-416.
- [3]. Smith LB, et al. CYP-mediated permethrin resistance in *Aedes aegypti* and evidence for trans-regulation. *PLoS Negl Trop Dis.* 2018 Nov 19;12(11):e0006933.

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

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