



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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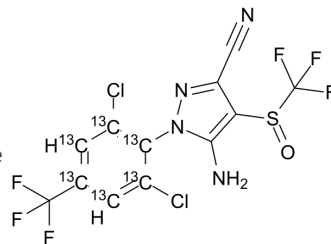
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Fipronil-¹³C₆

Cat. No.:	HY-B0822S1
Molecular Formula:	C ₆ ¹³ C ₆ H ₄ Cl ₂ F ₆ N ₄ OS
Molecular Weight:	443.1
Target:	GABA Receptor; Cytochrome P450
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fipronil- ¹³ C ₆ is the ¹³ C-labeled Fipronil. Fipronil is an insecticide that acts as a selective antagonist of insect GABA receptors (IC50s = 30 nM and 1,600 nM for cockroach and rat receptors, respectively). Fipronil also inhibits desensitizing and non-desensitizing glutamate-induced chloride currents in cockroach neurons (IC50s = 800 nM and 10 nM, respectively). Fipronil induces activity of the cytochrome P450 (CYP) isoforms CYP1A1/2, CYP2B1/2, and CYP3A1/2 in isolated rat liver microsomes.
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):211-223.

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

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