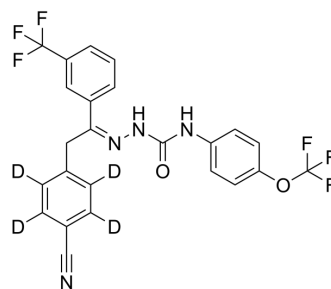


## Metaflumizone-d<sub>4</sub>

<b>Cat. No.:</b>	HY-116448S
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>12</sub> D <sub>4</sub> F <sub>6</sub> N <sub>4</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	510.42
<b>Target:</b>	Sodium Channel; Parasite; Isotope-Labeled Compounds
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Anti-infection; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Metaflumizone-d <sub>4</sub> is deuterium labeled Metaflumizone. Metaflumizone is a semicarbazone insecticide, acts as a potent sodium channel blocker[1].
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Salgado VL, et al. Metaflumizone is a novel sodium channel blocker insecticide. *Vet Parasitol.* 2007 Dec 15;150(3):182-9. Epub 2007 Oct 23.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA