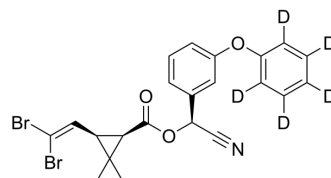


## Deltamethrin-d5

<b>Cat. No.:</b>	HY-B1971S
<b>CAS No.:</b>	2140301-99-9
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>14</sub> D <sub>5</sub> Br <sub>2</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	510.23
<b>Target:</b>	Endogenous Metabolite; Isotope-Labeled Compounds
<b>Pathway:</b>	Metabolic Enzyme/Protease; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Deltamethrin-d <sub>5</sub> is the deuterium labeled Deltamethrin. Deltamethrin (Decamethrin), a neurotoxic pyrethroid insecticide, produces a reversible sequence of motor symptoms in rats involving hind limb rigidity and choreoathetosis[1][2].
<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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Kavlock R, et al. Toxicity studies with decamethrin, a synthetic pyrethroid insecticide. *J Environ Pathol Toxicol*. 1979;2(3):751-765.;Ray DE. An EEG investigation of decamethrin-induced choreoathetosis in the rat. *Exp Brain Res*. 1980;38(2):221-227.

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

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