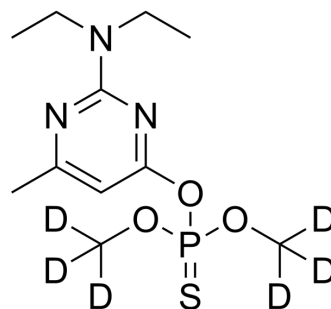


## Pirimiphos-methyl-d<sub>6</sub>

<b>Cat. No.:</b>	HY-B1881S
<b>CAS No.:</b>	1793055-06-7
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>14</sub> D <sub>6</sub> N <sub>3</sub> O <sub>3</sub> PS
<b>Molecular Weight:</b>	311.37
<b>Target:</b>	Parasite; Cholinesterase (ChE); Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Neuronal Signaling; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Pirimiphos-methyl-d <sub>6</sub> is the deuterium labeled Pirimiphos-methyl. Pirimiphos-methyl is a rapid-acting organophosphorus insecticide and acaricide, causing inhibition of AChE in target organisms. Pirimiphos-methyl is often used for prevention and control of beetles, snout beetles, moths and Ephemera caudata during storage of agricultural grains[1][2][3].
<b>IC<sub>50</sub> &amp; Target</b>	Mite
<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]. Shizhuang Weng, et al. Detection of Pirimiphos-Methyl in Wheat Using Surface-Enhanced Raman Spectroscopy and Chemometric Methods. *Molecules.* 2019 Apr 30;24(9):1691.
- [3]. Pål A Olsvik, et al. In Vitro Toxicity of Pirimiphos-Methyl in Atlantic Salmon Hepatocytes. *Toxicol In Vitro.* 2017 Mar;39:1-14.
- [4]. Esther Borrás, et al. Atmospheric Degradation of the Organothiophosphate Insecticide - Pirimiphos-methyl. *Sci Total Environ.* 2017 Feb 1;579:1-9.

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

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