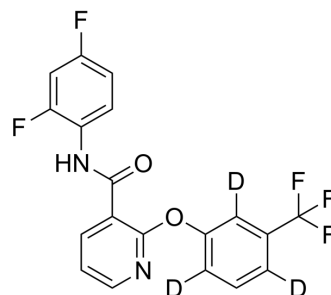


## Diflufenican-d3

Cat. No.:	HY-W040206S
CAS No.:	1185009-29-3
Molecular Formula:	C <sub>19</sub> H <sub>8</sub> D <sub>3</sub> F <sub>5</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	397.31
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Diflufenican-d <sub>3</sub> is the deuterium labeled Diflufenican[1]. Diflufenican is a contact, selective herbicide used to specifically control some broad leaved weeds[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 Feb;53(2):211-216.
- [2]. P Kosubová, et al. Spatial and Temporal Distribution of the Currently-Used and Recently-Banned Pesticides in Arable Soils of the Czech Republic. *Chemosphere*. 2020 Sep;254:126902.

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

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