



# SZABO SCANDIC

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## Produktinformation



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- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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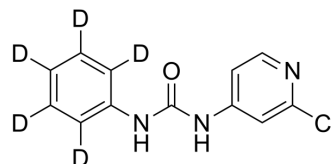
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## Forchlorfenuron-d5

<b>Cat. No.:</b>	HY-B1841S
<b>CAS No.:</b>	1398065-87-6
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>5</sub> D <sub>5</sub> ClN <sub>3</sub> O
<b>Molecular Weight:</b>	252.71
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Forchlorfenuron-d5 is the deuterium labeled Forchlorfenuron. Forchlorfenuron is plant growth regulator and cytokinin; can be used to increase fruit size of fruits, such as kiwi fruit and grapes.
<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]. Zhang Z, et al. Identification, synthesis, and safety assessment of forchlorfenuron (1-(2-chloro-4-pyridyl)-3-phenylurea) and its metabolites in kiwifruits. *J Agric Food Chem*. 2015 Mar 25;63(11):3059-66.
- [3]. Chen W, et al. Dissipation and residue of forchlorfenuron in citrus fruits. *Bull Environ Contam Toxicol*. 2013 Jun;90(6):756-60.

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

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