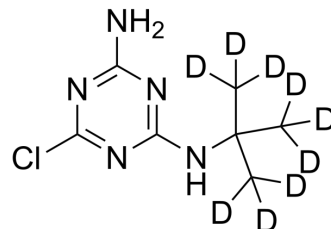


## Terbutylazine-desethyl-d<sub>9</sub>

Cat. No.:	HY-136445S
CAS No.:	1219798-52-3
Molecular Formula:	C <sub>7</sub> H <sub>3</sub> D <sub>9</sub> ClN <sub>5</sub>
Molecular Weight:	210.71
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>	Terbutylazine-desethyl-d <sub>9</sub> is the deuterium labeled Terbutylazine-desethyl[1]. Terbutylazine-desethyl (Desethylterbutylazine) is a chloro dealkylated metabolite of Terbutylazine (a triazine herbicide)[2][3].
<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]. Potter TL, et, al. Tillage, cover-crop residue management, and irrigation incorporation impact on fomesafen runoff. *J Agric Food Chem*. 2011 Jul 27;59(14):7910-5.
- [3]. Navarro S, et, al. Determination of simazine, terbutylazine, and their dealkylated chlorotriazine metabolites in soil using sonication microextraction and gas chromatography. *J AOAC Int*. Sep-Oct 200083(5):1239-43.

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

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