



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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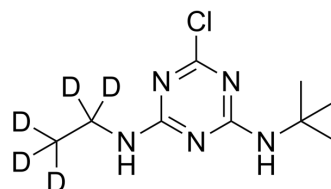
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## Terbuthylazine-d<sub>5</sub>

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-B1847S1   |       |          |
| CAS No.:           | 222986-60-9  |       |          |
| Molecular Formula: | C <sub>9</sub> H <sub>11</sub> D <sub>5</sub> ClN <sub>5</sub> |       |          |
| Molecular Weight:  | 234.74   |       |          |
| Target:            | Acetolactate Synthase (ALS)                                    |       |          |
| Pathway:           | Metabolic Enzyme/Protease                                      |       |          |
| Storage:           | Powder   | -20°C | 3 years  |
|                    |  | 4°C   | 2 years  |
|                    | In solvent   | -80°C | 6 months |
|                    |  | -20°C | 1 month  |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | Terbuthylazine-d <sub>5</sub> is the deuterium labeled Terbuthylazine[1]. Terbuthylazine is an inhibitor of acetolactate syntase (ALS), is a selective herbicide[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> .<br>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]. Cedergreen N, et al. Does the effect of herbicide pulse exposure on aquatic plants depend on Kow or mode of action? *Aquat Toxicol*. 2005 Feb 10;71(3):261-271.

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

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