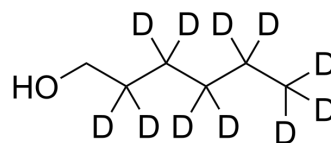


## 1-Hexanol-d<sub>11</sub>

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-W032022S1                                    |       |          |
| <b>CAS No.:</b>           | 2159-18-4                                       |       |          |
| <b>Molecular Formula:</b> | C <sub>6</sub> H <sub>3</sub> D <sub>11</sub> O |       |          |
| <b>Molecular Weight:</b>  | 113.24  |       |          |
| <b>Target:</b>            | Isotope-Labeled Compounds                       |       |          |
| <b>Pathway:</b>           | Others  |       |          |
| <b>Storage:</b>           | Pure form                                       | -20°C | 3 years  |
|                           |   | 4°C   | 2 years  |
|                           | In solvent                                      | -80°C | 6 months |
|                           |   | -20°C | 1 month  |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | 1-Hexanol-d <sub>11</sub> is the deuterium labeled 1-Hexanol[1]. 1-Hexanol, a primary alcohol, is a surfactant that can be employed in industrial processes to enhance interfacial properties[2]. 1-Hexanol uncouples mitochondrial respiration by a non-protonophoric mechanism[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> .<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]. Cuong V Nguyen, et al. Surface potential of 1-hexanol solution: comparison with methyl isobutyl carbinol. *J Phys Chem B*. 2013 Jun 27;117(25):7615-20.
- [3]. M Canton, et al. The nature of uncoupling by n-hexane, 1-hexanethiol and 1-hexanol in rat liver mitochondria. *Biochim Biophys Acta*. 1996 May 20;1274(1-2):39-47.

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

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