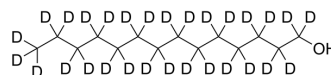


## 1-Tetradecanol-d<sub>29</sub>

Cat. No.:	HY-W004294S
CAS No.:	284474-78-8
Molecular Formula:	C <sub>14</sub> H <sub>29</sub> O
Molecular Weight:	243.57
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	1-Tetradecanol-d <sub>29</sub> is the deuterium labeled 1-Tetradecanol[1]. 1-Tetradecanol, isolated from Myristica fragrans, is a straight-chain saturated fatty alcohol. 1-Tetradecanol possesses antibacterial and anti-inflammatory (periodontitis) activity[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]. XiaoyeGeng, et al. Design and fabrication of reversible thermochromic microencapsulated phase change materials for thermal energy storage and its antibacterial activity. *Energy*. Volume 159, 15 September 2018, Pages 857-869.

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

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