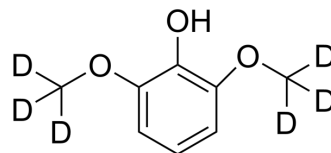


## 2,6-Dimethoxyphenol-d<sub>6</sub>

Cat. No.:	HY-W003972S1
Molecular Formula:	C <sub>8</sub> H <sub>4</sub> D <sub>6</sub> O <sub>3</sub>
Molecular Weight:	160.2
Target:	Biochemical Assay Reagents; Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	2,6-Dimethoxyphenol-d <sub>6</sub> is deuterated labeled Menthofuran (HY-N9484). Menthofuran is a proximate toxic metabolite of (R)-(+)-Pulegone. Menthofuran regulates essential oil biosynthesis in peppermint by controlling a downstream monoterpene reductase <sup>[1][2]</sup> .
<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]. Oluyemisi E. et al. Enzymatic modification of 2,6-dimethoxyphenol for the synthesis of dimers with high antioxidant capacity. *Process biochemistry*, 47, 1926-1932.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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