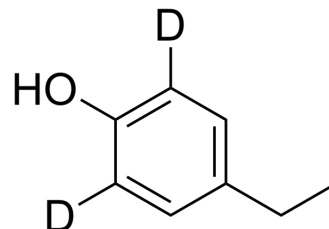


## 4-Ethylphenol-d<sub>2</sub>

Cat. No.:	HY-W012836S2
CAS No.:	1335401-68-7
Molecular Formula:	C <sub>8</sub> H <sub>8</sub> D <sub>2</sub> O
Molecular Weight:	124.18
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Ethylphenol-d <sub>2</sub> is deuterated labeled Isoeugenol (HY-N1952). Isoeugenol is an essential oil constituent of nutmeg, clove, and cinnamon. Isoeugenol inhibits growth of Escherichia coli and Listeria innocua with MICs of 0.6 mg/mL and 1 mg/mL, respectively <sup>[1]</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]. Nieto-Rojo R, et al. Sorption of 4-ethylguaiaicol and 4-ethylphenol on yeast cell walls, using a synthetic wine. Food Chem. 2014;152:399-406.
- [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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA