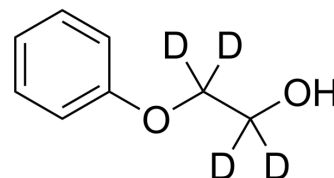


## Phenoxyethanol-d<sub>4</sub>

Cat. No.:	HY-B1729S1
CAS No.:	1219804-65-5
Molecular Formula:	C <sub>8</sub> H <sub>6</sub> D <sub>4</sub> O <sub>2</sub>
Molecular Weight:	142.19
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Phenoxyethanol-d <sub>4</sub> is the deuterium labeled Phenoxyethanol[1]. Phenoxyethanol has a broad spectrum of antimicrobial activity against various gram-negative and gram-positive bacteria. Phenoxyethanol is an uncouple agent in oxidative phosphorylation from respiration and competitively inhibits malate dehydrogenase. Phenoxyethanol is used as a preservative in cosmetic, vaccine, and textile, et al[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]. B Dréno, et al. Safety Review of Phenoxyethanol When Used as a Preservative in Cosmetics. *J Eur Acad Dermatol Venereol*. 2019 Nov;33 Suppl 7:15-24.

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

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