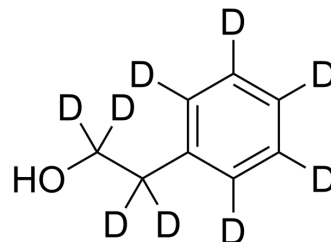


## 2-Phenylethanol-d<sub>9</sub>

Cat. No.:	HY-B1290S1
CAS No.:	42950-74-3
Molecular Formula:	C <sub>8</sub> HD <sub>9</sub> O
Molecular Weight:	131.22
Target:	Bacterial; Virus Protease; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	2-Phenylethanol-d <sub>9</sub> is the deuterium labeled 2-Phenylethanol[1]. 2-Phenylethanol (Phenethyl alcohol), extracted from rose, carnation, hyacinth, Aleppo pine, orange blossom and other organisms, is a colourless liquid. It has a pleasant floral odor and also an autoantibiotic produced by the fungus <i>Candida albicans</i> [2]. It is used as an additive in cigarettes and also used as a preservative in soaps due to its stability in basic conditions.
<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]. Lingappa BT, et al. Phenethyl alcohol and tryptophol: autoantibiotics produced by the fungus *Candida albicans*. *Science*. 1969 Jan 10;163(3863):192-4.

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

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