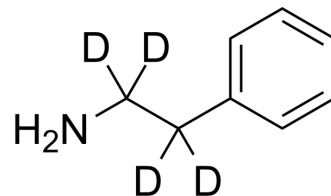


2-Phenylethylamine-d4

Cat. No.:	HY-W010483S
CAS No.:	87620-08-4
Molecular Formula:	C ₈ H ₇ D ₄ N
Molecular Weight:	125.2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Phenylethylamine-d4 is the deuterium labeled 2-Phenylethylamine. 2-Phenylethylamine is believed to function as a neuromodulator or neurotransmitter.
In Vitro	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 ^[1] . 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;53(2):211-216.
- [2]. O'Reilly RL, et al. Phenylethylamine and schizophrenia. *Prog Neuropsychopharmacol Biol Psychiatry*. 1994 Jan;18(1):63-75.
- [3]. Potkin SG, et al. Phenylethylamine (PEA) and phenylacetic acid (PAA) in the urine of chronic schizophrenic patients and controls. *Psychopharmacol Bull*. 1980 Jan;16(1):52-4.
- [4]. Kusaga A, et al. Increased urine phenylethylamine after methylphenidate treatment in children with ADHD. *Ann Neurol*. 2002 Sep;52(3):372-4.

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

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