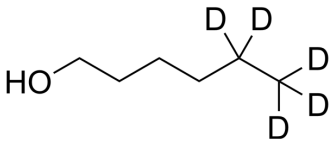
1-Hexanol-d_5

Cat. No.:	HY-W032022S3
CAS No.:	64118-18-9
Molecular Formula:	$C_6H_9D_5O$
Molecular Weight:	107.21
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Hexanol-d_5 is the deuterium labeled 1-Hexanol[1]. 1-Hexanol, a primary alcohol, is a surfactant that can be employed in industrial processes to enhance interfacial properties[2]. 1-Hexanol uncouples mitochondrial respiration by a non-protonophoric mechanism[3].
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 Feb;53(2):211-216.

[2]. Cuong V Nguyen, et al. Surface potential of 1-hexanol solution: comparison with methyl isobutyl carbinol. J Phys Chem B. 2013 Jun 27;117(25):7615-20.

[3]. M Canton, et al. The nature of uncoupling by n-hexane, 1-hexanethiol and 1-hexanol in rat liver mitochondria. Biochim Biophys Acta. 1996 May 201274(1-2):39-47.

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

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