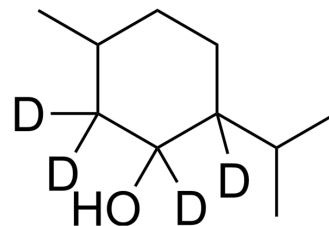


Menthol-d₄

Cat. No.:	HY-N1369S
CAS No.:	1217765-02-0
Molecular Formula:	C ₁₀ H ₁₆ D ₄ O
Molecular Weight:	160.29
Target:	Calcium Channel; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Menthol-d ₄ is the deuterium labeled Menthol. Menthol is a natural analgesic compound. Menthol could cause a feeling of coolness due to stimulation of 'cold' receptors by inhibiting Ca ⁺⁺ currents of neuronal membranes[1].
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]. NicolettaGaleotti, et al. Menthol: a natural analgesic compound. *Neuroscience Letters*. 2002 Apr.

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

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