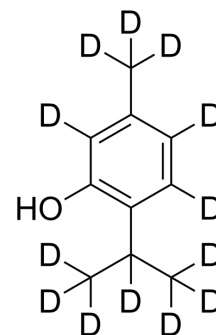


Thymol-d₁₃

Cat. No.:	HY-N6810S
CAS No.:	1219798-93-2
Molecular Formula:	C ₁₀ H _D ₁₃ O
Molecular Weight:	163.3
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thymol-d ₁₃ is the deuterium labeled Thymol[1]. Thymol is the main monoterpene phenol occurring in essential oils isolated from plants belonging to the Lamiaceae family, and other plants such as those belonging to the Verbenaceae, Scrophulariaceae, Ranunculaceae and Apiaceae families. Thymol has antioxidant, anti-inflammatory, antibacterial and antifungal effects[2].
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]. Marchese A, et al. Antibacterial and antifungal activities of thymol: A brief review of the literature. *Food Chem*. 2016 Nov 1;210:402-14.

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

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