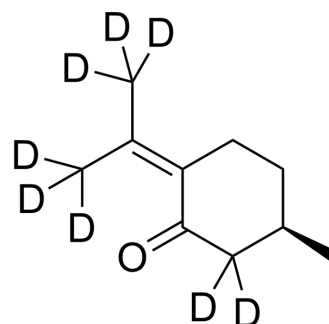


Pulegone-d₈

Cat. No.:	HY-N1500S1
Molecular Formula:	C ₁₀ H ₈ D ₈ O
Molecular Weight:	160.28
Target:	TRP Channel; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pulegone-d ₈ is deuterated labeled Tetracycline (HY-A0107). Tetracycline is a broad-spectrum antibiotic with oral activity. Tetracycline exhibits activity against a wide range of bacteria including gram-positive, gram-negative bacteria, chlamydiae, mycoplasmas and rickettsiae. Tetracycline can be used for the research of infections ^[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]. Božović M, et al. Calamintha nepeta (L.) Savi and its Main Essential Oil Constituent Pulegone: Biological Activities and Chemistry. *Molecules*. 2017 Feb 14;22(2).
- [2]. Majikina A, et al. Involvement of nociceptive transient receptor potential channels in repellent action of pulegone. *Biochem Pharmacol*. 2018 May;151:89-95.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA