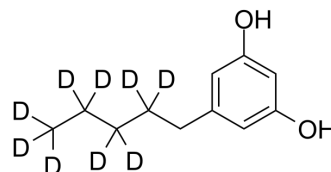


Olivetol-d9

Cat. No.:	HY-W008364S1
CAS No.:	137125-92-9
Molecular Formula:	C ₁₁ H ₇ D ₉ O ₂
Molecular Weight:	189.3
Target:	Cannabinoid Receptor; Cytochrome P450
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Olivetol-d9 is the deuterium labeled Olivetol. Olivetol is a naturally phenol found in lichens and produced by certain insects, acting as a competitive inhibitor of the cannabinoid receptors CB1 and CB2[3]. Olivetol also inhibits CYP2C19 and CYP2D6 activi
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]. Jiang R, et al. Cannabidiol is a potent inhibitor of the catalytic activity of cytochrome P450 2C19. *Drug Metab Pharmacokinet*. 2013;28(4):332-8.; Yamaori S, et al. Cannabidiol, a major phytocannabinoid, as a potent atypical inhibitor for CYP2D6. *Drug Metab*

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

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