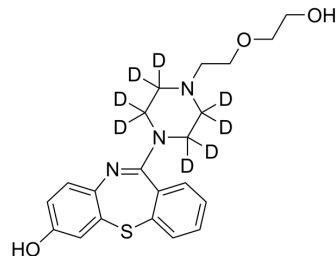


7-Hydroxy Quetiapine-d₈

Cat. No.:	HY-137532S
CAS No.:	1185098-57-0
Molecular Formula:	C ₂₁ H ₁₇ D ₈ N ₃ O ₃ S
Molecular Weight:	407.56
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	7-Hydroxy Quetiapine-d ₈ is the deuterium labeled 7-Hydroxyquetiapine. 7-Hydroxyquetiapine (ICI 214227) is the major active metabolite of antipsychotic medicine Quetiapine[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]. Bakken GV, et al. Metabolism of quetiapine by CYP3A4 and CYP3A5 in presence or absence of cytochrome B5. *Drug Metab Dispos*. 2009 Feb;37(2):254-8.

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

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