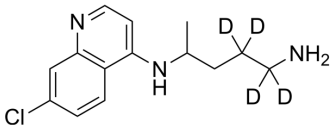
Didesethyl chloroquine-d_4

Cat. No.:	HY-100662S
CAS No.:	1215797-41-3
Molecular Formula:	$C_{14}H_{14}D_4ClN_3$
Molecular Weight:	267.79
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	Didesethyl chloroquine-d_4 is the deuterium labeled Didesethyl chloroquine. Didesethyl chloroquine (Bisdesethylchloroquine) is a major metabolite of the antimalarial agent Chloroquine. Didesethyl chloroquine is a potent myocardial depressant[1][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;53(2):211-216.

[2]. Biot C, et al. Synthesis and antimalarial activity in vitro of potential metabolites of ferrochloroquine and related compounds. Bioorg Med Chem. 1999 Dec;7(12):2843-7.

[3]. Essien EE, et al. Effects of chloroquine and didesethylchloroquine on rabbit myocardium and mitochondria. J Pharm Pharmacol. 1986 Jul;38(7):543-6.

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