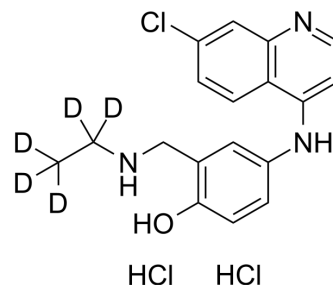


N-Desethyl amodiaquine-d₅ dihydrochloride

Cat. No.:	HY-128554S1
CAS No.:	1216894-33-5
Molecular Formula:	C ₁₈ H ₁₅ D ₅ Cl ₃ N ₃ O
Molecular Weight:	405.76
Target:	Parasite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Desethyl amodiaquine-d ₅ (dihydrochloride) is the deuterium labeled N-Desethyl amodiaquine dihydrochloride. N-Desethyl amodiaquine dihydrochloride is the major biologically active metabolite of Amodiaquine. N-Desethyl amodiaquine dihydrochloride is an antiparasitic agent. IC ₅₀ values for strains V1/S and 3D7 are 97 nM and 25 nM, respectively ^[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]. Sasi P, et al. In vivo and in vitro efficacy of amodiaquine against Plasmodium falciparum in an area of continued use of 4-aminoquinolines in East Africa. *J Infect Dis.* 2009 Jun 1;199(11):1575-82.

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

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