Piperaquine-d6

Cat. No.: HY-B1896S

CAS No.: 1261394-71-1

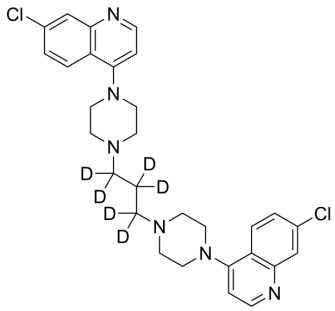
Molecular Formula: $C_{29}H_{26}D_6Cl_2N_6$

Molecular Weight: 541.55

Target: Parasite

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Piperaquine-d_6 is the deuterium labeled Piperaquine[1]. Piperaquine is a bisquinoline antimalarial agent. Piperaquine can be used in antimalarial research in combination with Artemisinin[2][3].
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]. Moore BR, et, al. Pharmacokinetics and pharmacodynamics of piperaquine in a murine malaria model. Antimicrob Agents Chemother. 2008 Jan; 52(1): 306-11.

[3]. Davis TME, et, al. Piperaquine: a resurgent antimalarial drug. Drugs. 2005; 65(1): 75-87.

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