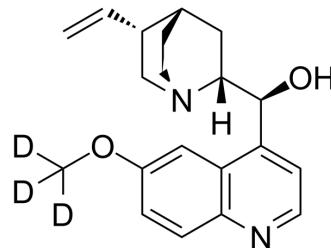


Quinidine-d3

Cat. No.:	HY-B1751S
CAS No.:	1267657-68-0
Molecular Formula:	C ₂₀ H ₂₁ D ₃ N ₂ O ₂
Molecular Weight:	327.44
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Quinidine-d3 is the deuterium labeled Quinidine. Quinidine is an antiarrhythmic agent for the treatment of abnormal heart rhythms and also malaria.
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]. Kehl SJ, et al. Quinidine-induced inhibition of the fast transient outward K⁺ current in rat melanotrophs. *Br J Pharmacol.* 1991 Jul;103(3):1807-13.
- [3]. Roden DM, et al. Class I antiarrhythmic agents: quinidine, procainamide and N-acetylprocainamide, disopyramide.
- [4]. Moody DE, et al. Quinidine inhibits in vivo metabolism of amphetamine in rats: impact upon correlation between GC/MS and immunoassay findings in rat urine. *J Anal Toxicol.* 1990 Sep-Oct;14(5):311-7.

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

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