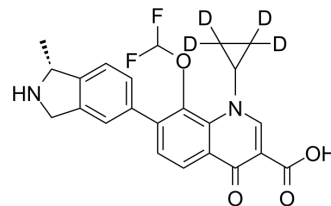


Garenoxacin-d4

Cat. No.:	HY-17460S
CAS No.:	1217818-32-0
Molecular Formula:	C ₂₃ H ₁₆ D ₄ F ₂ N ₂ O ₄
Molecular Weight:	430.44
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Garenoxacin-d4 (BMS284756-d4) is the deuterium labeled Garenoxacin. Garenoxacin (BMS284756) is a quinolone antibiotic for the treatment of Gram-positive and Gram-negative bacterial infections ^{[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]. Takagi H, et al. Clinical studies of garenoxacin. *Int J Antimicrob Agents*. 2008;32(6):468-474.

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

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