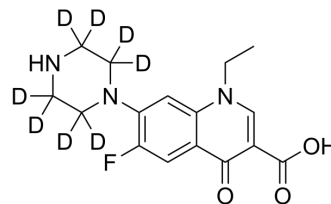


Norfloxacin-d8

Cat. No.:	HY-B0132S1
CAS No.:	1216601-32-9
Molecular Formula:	C ₁₆ H ₁₀ D ₈ FN ₃ O ₃
Molecular Weight:	327.38
Target:	Bacterial; Endogenous Metabolite; Antibiotic
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Norfloxacin-d8 (MK-0366-d8) is the deuterium labeled Norfloxacin. Norfloxacin (MK-0366) is a broad-spectrum antibiotic that is active against both Gram-positive and Gram-negative bacteria, which functions by inhibiting DNA gyrase.
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]. Nelson JM, et al. Fluoroquinolone-resistant *Campylobacter* species and the withdrawal of fluoroquinolones from use in poultry: a public health success story. *Clin Infect Dis*. 2007 Apr 1;44(7):977-80. Epub 2007 Feb 14.
- [3]. Pade?skaia EN. Norfloxacin: more than 20 years of clinical use, the results and place among fluoroquinolones in modern chemotherapy for infections. *Antibiot Khimioter*. 2003;48(9):28-36.
- [4]. Rafalsky V, et al. Quinolones for uncomplicated acute cystitis in women. *Cochrane Database Syst Rev*. 2006 Jul 19;(3):CD003597.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA