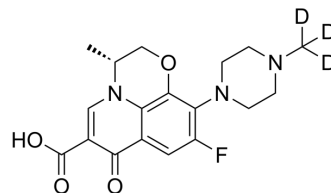


## (R)-Ofloxacin-d<sub>3</sub>

Cat. No.:	HY-B0330DS
CAS No.:	1346617-10-4
Molecular Formula:	C <sub>18</sub> H <sub>17</sub> D <sub>3</sub> FN <sub>3</sub> O <sub>4</sub>
Molecular Weight:	364.39
Target:	Bacterial; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(R)-Ofloxacin-d <sub>3</sub> is the deuterium labeled (R)-Ofloxacin. (R)-Ofloxacin (Dextroflaxacin) is an antibiotic useful for the treatment of a number of bacterial infections[1]. Antibacterial activity[1].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Nahla N. Salama, et al. Thin-Layer Chromatographic Enantioseparation of Ofloxacin and Zopiclone using Hydroxy-Propyl-BetaCyclodextrin as Chiral Selector and Thermodynamic Studies of Complexation. *Journal of Planar Chromatography*. 27 (2014) 3, 166-173.

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

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