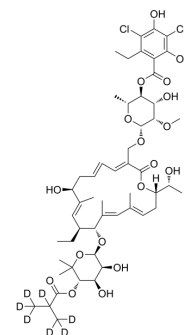


Fidaxomicin-d₇

Cat. No.:	HY-17580S
CAS No.:	2143934-06-7
Molecular Formula:	C ₅₂ H ₆₇ D ₇ Cl ₂ O ₁₈
Molecular Weight:	1065.08
Target:	Bacterial; Apoptosis; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fidaxomicin-d ₇ (OPT-80-D7) is the deuterium labeled Fidaxomicin. Fidaxomicin (OPT-80), a macrocyclic RNA polymerase inhibitor, has a narrow spectrum of activity. Fidaxomicin selectively eradicates pathogenic <i>Clostridium difficile</i> with minimal disruption to the multiple species of bacteria that make up the normal, healthy intestinal flora[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]. Poxton IR, et al. Fidaxomicin: a new macrocyclic, RNA polymerase-inhibiting antibiotic for the treatment of *Clostridium difficile* infections. *Future Microbiol.* 2010 Apr;5(4):539-48.

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

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