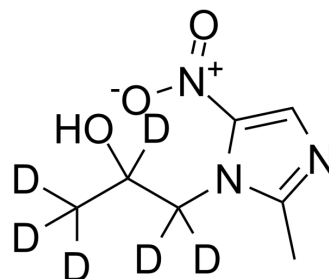


Secnidazole-d6

Cat. No.:	HY-B1118S
CAS No.:	1346603-27-7
Molecular Formula:	C ₇ H ₃ D ₆ N ₃ O ₃
Molecular Weight:	191.22
Target:	Parasite; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Secnidazole-d6 (RP-14539-d6) is the deuterium labeled Secnidazole. Secnidazole (RP-14539;PM-185184) is an orally activeazole antibiotic with a longer half-life than metronidazole (HY-B0318). Secnidazole is against the vaginosis-associated bacteria and has the potential for bacterial vaginosis research ^[1] .
IC₅₀ & Target	Amebae
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]. Petrina MAB, et al. Susceptibility of bacterial vaginosis (BV)-associated bacteria to secnidazole compared to metronidazole, tinidazole and clindamycin. *Anaerobe.* 2017 Oct;47:115-119.

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

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