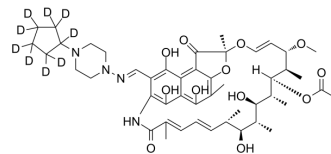


Rifapentine-d9

Cat. No.:	HY-B0269S
Molecular Formula:	C ₄₇ H ₅₅ D ₉ N ₄ O ₁₂
Molecular Weight:	886.09
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rifapentine-d9 (DL 473-d9) is the deuterium labeled Rifapentine. Rifapentine (DL 473) is an antibiotic compound used in the treatment of tuberculosis.
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]. Sharma, S.K., et al., Rifamycins (rifampicin, rifabutin and rifapentine) compared to isoniazid for preventing tuberculosis in HIV-negative people at risk of active TB. *Cochrane Database Syst Rev*, 2013. 7: p. CD007545.

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

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