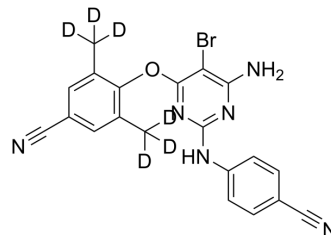


Etravirine-d₈

Cat. No.:	HY-132508S
CAS No.:	1142096-06-7
Molecular Formula:	C ₂₀ H ₉ D ₆ BrN ₆ O
Molecular Weight:	443.33
Target:	Reverse Transcriptase; HIV; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Etravirine-d ₈ is the deuterium labeled Etravirine. Etravirine (R165335) is a non-nucleoside reverse transcriptase inhibitor (NNRTI) used for the treatment of HIV[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]. Andries, K., et al. TMC125, a novel next-generation nonnucleoside reverse transcriptase inhibitor active against nonnucleoside reverse transcriptase inhibitor-resistant human immunodeficiency virus type 1. *Antimicrob Agents Chemother*, 2004. 48(12): p. 468
- [3]. Lazzarin, A., et al. Efficacy and safety of TMC125 (etravirine) in treatment-experienced HIV-1-infected patients in DUET-2: 24-week results from a randomised, double-blind, placebo-controlled trial. *Lancet*, 2007. 370(9581): p. 39-48.

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

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