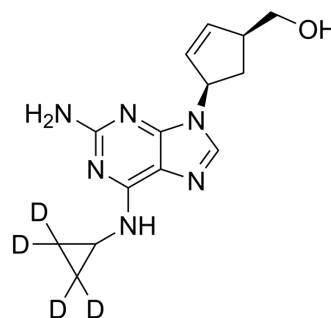


Abacavir-d₄

Cat. No.:	HY-17423S
CAS No.:	1260619-56-4
Molecular Formula:	C ₁₄ H ₁₄ D ₄ N ₆ O
Molecular Weight:	290.36
Target:	Apoptosis; Reverse Transcriptase; HIV; Isotope-Labeled Compounds
Pathway:	Apoptosis; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Abacavir-d ₄ is the deuterium labeled Abacavir. Abacavir is a potent nucleoside analog reverse-transcriptase inhibitor (NRTI)[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]. Charneira C, et al. Reactive aldehyde metabolites from the anti-HIV drug abacavir: amino acid adducts as possible factors in abacavir toxicity. *Chem Res Toxicol.* 2011 Dec 19;24(12):2129-41.
- [3]. Hervey PS, et al. Abacavir: a review of its clinical potential in patients with HIV infection. *Drugs.* 2000 Aug;60(2):447-79.

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

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