Entecavir-d_2

Cat. No.: HY-13623S

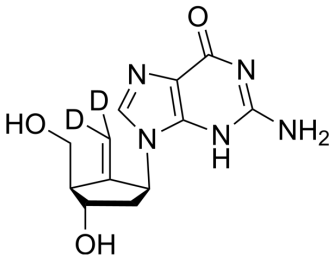
Molecular Formula: $C_{12}H_{13}D_2N_5O_3$

Molecular Weight: 279.29

Target: HBV; Isotope-Labeled Compounds

Pathway: Anti-infection; Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Entecavir-d_2 is the deuterium labeled Entecavir. Entecavir (SQ 34676; BMS 200475) is a potent and selective inhibitor of HBV, with an EC50 of 3.75 nM in HepG2 cell.
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]. Innaimo SF, et al. Identification of?BMS-200475?as a potent and selective inhibitor of hepatitis B virus. Antimicrob Agents Chemother. 1997 Jul;41(7):1444-9.

[3]. Rivkin A, et al. A review of entecavir in the treatment of chronic hepatitis B infection. Curr Med Res Opin.?2005 Nov;21(11):1845-57.

[4]. Genovesi EV, et al. Efficacy of the carbocyclic 2'-deoxyguanosine nucleoside?BMS-200475?in the woodchuck model of hepatitis B virus infection. Antimicrob Agents Chemother.?1998 Dec;42(12):3209-18.

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