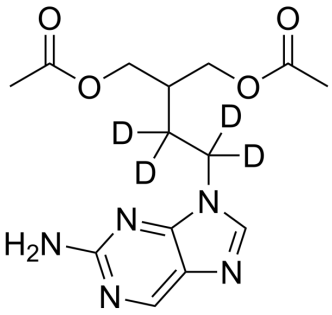
Famciclovir-d_4

Cat. No.:	HY-17426S
CAS No.:	1020719-42-9
Molecular Formula:	$C_{14}H_{15}D_4N_5O_4$
Molecular Weight:	325.36
Target:	HSV; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Famciclovir-d_4 is the deuterium labeled Famciclovir. Famciclovir (BRL 42810) is a guanine analogue antiviral agent used for the treatment of various herpesvirus infections[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]. Harrell AW, Wheeler SM, Pennick M, Evidence that famciclovir (BRL 42810) and its associated metabolites do not inhibit the 6 beta-hydroxylation of testosterone in human liver microsomes. Drug Metab Dispos. 1993 Jan-Feb;21(1):18-23.

[3]. Perry CM, Wagstaff AJ. Famciclovir. A review of its pharmacological properties and therapeutic efficacy in herpesvirus infections. Drugs. 1995 Aug;50(2):396-415.

[4]. Trépo C, Jezek P, Atkinson G, Famciclovir in chronic hepatitis B: results of a dose-finding study. J Hepatol. 2000 Jun;32(6):1011-8.

[5]. Filer CW, Ramji JV, Allen GD, Metabolic and pharmacokinetic studies following oral administration of famciclovir to the rat and dog. Xenobiotica. 1995 May;25(5):477-90.

[6]. Wutzler P, Ulbricht A, Färber I. Antiviral efficacies of famciclovir, valaciclovir, and brivudin in disseminated herpes simplex virus type 1 infection in mice. Intervirology. 1997;40(1):15-21.

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