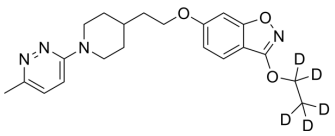
Vapendavir-d_5

Cat. No.:	HY-106254S
CAS No.:	2738376-73-1
Molecular Formula:	$C_{21}H_{21}D_5N_4O_3$
Molecular Weight:	387.49
Target:	Enterovirus; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Vapendavir-d5 is the deuterium labeled Vapendavir. Vapendavir (BTA798) is a potent enteroviral capsid binder (CB). Vapendavir (BTA798) possesses potent antiviral activity for enterovirus 71 (EV71) replication, with EC_{50} values of 0.5-1.4 μM in different EV71 strains[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]. Tijsma A, et al. The capsid binder Vapendavir and the novel protease inhibitor SG85 inhibit enterovirus 71 replication. Antimicrob Agents Chemother. 2014 Nov;58(11):6990-2.

[3]. Sun L, et al. Antiviral Activity of Broad-Spectrum and Enterovirus-Specific Inhibitors against Clinical Isolates of Enterovirus D68. Antimicrob Agents Chemother. 2015 Dec;59(12):7782-5.

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