Umifenovir-d_6 hydrochloride

Cat. No.: HY-14904AS

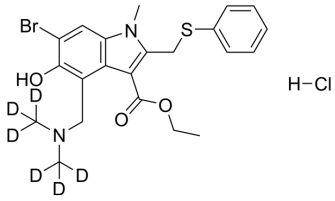
Molecular Formula: $C_{22}H_{20}D_6BrClN_2O_3S$

Molecular Weight: 519.91

Target: Influenza Virus; SARS-CoV; Isotope-Labeled Compounds

Pathway: Anti-infection; Others

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



BIOLOGICAL ACTIVITY

Description	Umifenovir-d_6 (hydrochloride) is the deuterium labeled Umifenovir hydrochloride. Umifenovir hydrochloride is a potent, orally active broad-spectrum antiviral with activity against a number of enveloped and non-enveloped viruses. Umifenovir hydrochloride is used as an anti-influenza virus agent. Umifenovir hydrochloride could effectively inhibit the fusion of virus with host cells[1][2]. Umifenovir hydrochloride is an efficient inhibitor of SARS-CoV-2 in vitro. Anti-inflammatory activity[3].
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]. Boriskin YS, et al. Arbidol: a broad-spectrum antiviral compound that blocks viral fusion. Curr Med Chem. 2008;15(10):997-1005.

[3]. Liu Q, et al. Antiviral and anti-inflammatory activity of arbidol hydrochloride in influenza A (H1N1) virus infection. Acta Pharmacol Sin. 2013;34(8):1075-1083.

[4]. Wang X, et al. The anti-influenza virus drug, arbidol is an efficient inhibitor of SARS-CoV-2 in vitro. Cell Discov. 2020;6:28. Published 2020 May 2.

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