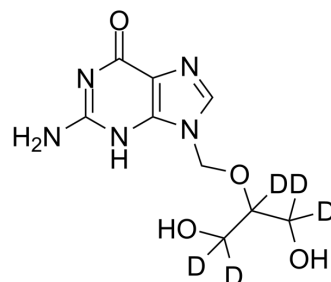


## Ganciclovir-d5

<b>Cat. No.:</b>	HY-13637S
<b>CAS No.:</b>	1189966-73-1
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>8</sub> D <sub>5</sub> N <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	260.26
<b>Target:</b>	CMV; HSV; Antibiotic; Nucleoside Antimetabolite/Analog
<b>Pathway:</b>	Anti-infection; Cell Cycle/DNA Damage
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ganciclovir-d5 (BW 759-d5) is the deuterium labeled Ganciclovir. Ganciclovir (BW 759), a nucleoside analogue, is an orally active antiviral agent with activity against CMV. Ganciclovir also has activity in vitro against members of the herpes group and some other DNA viruses. Ganciclovir inhibits the in vitro replication of human herpes viruses (HSV 1 and 2, CMV) and adenovirus serotypes 1, 2, 4, 6, 8, 10, 19, 22 and 28. Ganciclovir has an IC <sub>50</sub> of 5.2 μM for feline herpesvirus type-1 (FHV-1) <sup>[1][2][3]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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- [7]. Faulds D, et al. Ganciclovir. A review of its antiviral activity, pharmacokinetic properties and therapeutic efficacy in cytomegalovirus infections. *Drugs.* 1990;39(4):597-638.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA