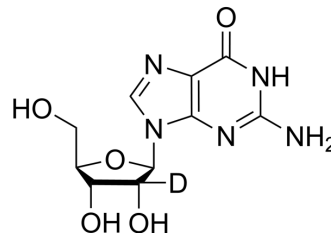


## Guanosine-8-d-1

Cat. No.:	HY-N0097S1
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> DN <sub>5</sub> O <sub>5</sub>
Molecular Weight:	284.25
Target:	Endogenous Metabolite; HSV; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Guanosine-8-d-1 is the deuterium labeled Guanosine. Guanosine (DL-Guanosine) is a purine nucleoside comprising guanine attached to a ribose (ribofuranose) ring via a β-N9-glycosidic bond. Guanosine possesses anti-HSV activ[1][2].
<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

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. De Clercq E1. Guanosine analogues as anti-herpesvirus agents. *Nucleosides Nucleotides Nucleic Acids*. 2000 Oct-Dec;19(10-12):1531-41.

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

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