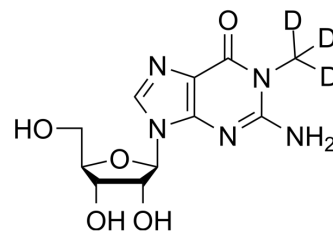


1-Methylguanosine-d₃

Cat. No.:	HY-113136S
Molecular Formula:	C ₁₁ H ₁₂ D ₃ N ₅ O ₅
Molecular Weight:	300.29
Target:	Isotope-Labeled Compounds; Endogenous Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Methylguanosine-d ₃ is deuterium labeled 1-Methylguanosine (HY-113136). 1-Methylguanosine is a methylated nucleoside originating from RNA degradation. 1-Methylguanosine is a tumour marker.
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 Feb;53(2):211-216.
- [2]. Liebich HM, et al. Quantitation of urinary nucleosides by high-performance liquid chromatography. *J Chromatogr A*. 1997 Feb 28;763(1-2):193-7.

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

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