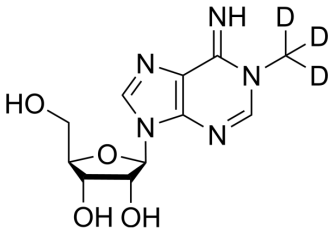
1-Methyladenosine-d_3

Cat. No.:	HY-113081S
Molecular Formula:	$C_{11}H_{12}D_3N_5O_4$
Molecular Weight:	284.29
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Methyl Adenosine-d3 is the deuterium labeled 1-Methyladenosine. 1-Methyladenosine is an RNA modification originating essentially from two different reaction types, one catalyzed by enzymes and the other the result of the reaction of RNA with certain alkylating agents.
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]. Hauenschild R, et al. The reverse transcription signature of N-1-methyladenosine in RNA-Seq is sequence dependent. Nucleic Acids Res. 2015 Nov 16;43(20):9950-64.

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