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Zuschläge

- Mindermengenzuschlag
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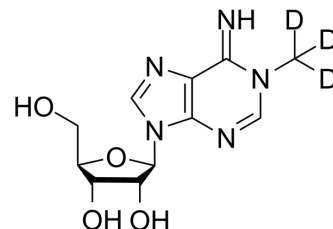
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1-Methyladenosine-d₃

Cat. No.:	HY-113081S
Molecular Formula:	C ₁₁ H ₁₂ D ₃ N ₅ O ₄
Molecular Weight:	284.29
Target:	Endogenous Metabolite; Isotope-Labeled Compounds; PPAR; Hedgehog
Pathway:	Metabolic Enzyme/Protease; Others; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Methyl Adenosine-d ₃ is the deuterium labeled 1-Methyladenosine. 1-Methyladenosine is an RNA modification that can serve as a tumor marker, with elevated levels in the body associated with cancer development. Following 1-methyladenosine methylation, upregulation of PPAR δ expression regulates cholesterol metabolism and activates Hedgehog signaling pathway, driving liver tumorigenesis ^{[1][2][3][4]} .
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]. Banys K, et al. Effect of Genistein Supplementation on the Progression of Neoplasms and the Level of the Modified Nucleosides in Rats With Mammary Cancer. *In Vivo*. 2021 Jul-Aug;35(4):2059-2072.
- [2]. Wang Y, et al. N 1-methyladenosine methylation in tRNA drives liver tumourigenesis by regulating cholesterol metabolism[J]. *Nature communications*, 2021, 12(1): 6314.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [4]. 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.

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

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