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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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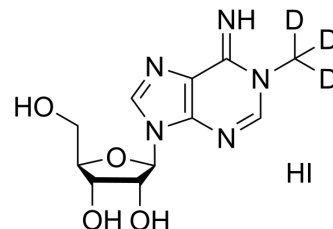
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1-Methyladenosine-d₃ hydriodide

Cat. No.:	HY-113081S1
Molecular Formula:	C ₁₁ H ₁₃ D ₃ IN ₅ O ₄
Molecular Weight:	412.2
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; PPAR; Hedgehog
Pathway:	Others; Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Stem Cell/Wnt
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description

1-Methyladenosine-d₃ hydriodide is the deuterium labeled 1-Methyladenosine (HY-113081). 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]}.

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.
- [3]. 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.
- [4]. Wang Y, et al. N 1-methyladenosine methylation in tRNA drives liver tumourigenesis by regulating cholesterol metabolism[J]. *Nature communications*, 2021, 12(1): 6314.

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

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