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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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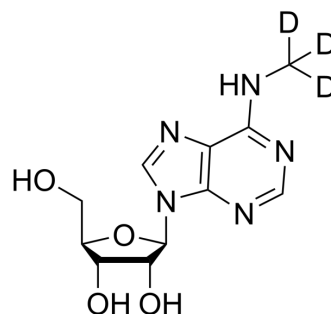
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N6-Methyladenosine-d₃

Cat. No.:	HY-N0086S
CAS No.:	139896-43-8
Molecular Formula:	C ₁₁ H ₁₂ D ₃ N ₅ O ₄
Molecular Weight:	284.29
Target:	Isotope-Labeled Compounds; Influenza Virus; Endogenous Metabolite
Pathway:	Others; Anti-infection; Metabolic Enzyme/Protease
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 31 mg/mL (109.04 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.5175 mL	17.5877 mL	35.1753 mL
	5 mM	0.7035 mL	3.5175 mL	7.0351 mL
	10 mM	0.3518 mL	1.7588 mL	3.5175 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N6-Methyladenosine-d₃ (6-Methyladenosine-d₃; N-Methyladenosine-d₃) is a deuterium labeled N6-Methyladenosine (HY-N0086). N6-Methyladenosine is the most prevalent internal (non-cap) modification present in the messenger RNA (mRNA) of all higher eukaryotes. N6-Methyladenosine can modify viral RNAs and has antiviral activities.

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):211-246.
- [2]. Wang X, et al. N6-methyladenosine-dependent regulation of messenger RNA stability. *Nature*. 2014 Jan 2;505(7481):117-20.
- [3]. Li Y, et al. Genome-wide detection of high abundance N6-methyladenosine sites by microarray. *RNA*. 2015 Aug;21(8):1511-8.

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

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