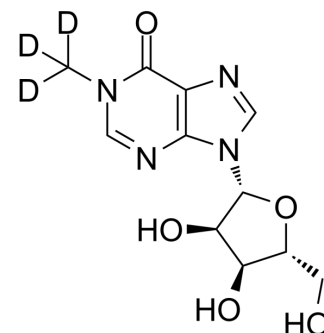


1-Methylinosine-d3

Cat. No.:	HY-113139S		
Molecular Formula:	C ₁₁ H ₁₁ D ₃ N ₄ O ₅		
Molecular Weight:	285.27		
Target:	Nucleoside Antimetabolite/Analog; Endogenous Metabolite		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	1-Methylinosine-d ₃ is the deuterium labeled 1-Methylinosine. 1-Methylinosine is a modified nucleotide found at position 37 in tRNA 3' to the anticodon of eukaryotic tRNA[1].
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]. 1-Methylinosine-Human Metabolome Database.

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

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