Adenosine-1'-13C

Cat. No.:	HY-B0228S4
CAS No.:	201996-55-6
Molecular Formula:	C ₉ ¹³ CH ₁₃ N ₅ O ₄
Molecular Weight:	268.23
Target:	Apoptosis; Autophagy; Endogenous Metabolite; Nucleoside Antimetabolite/Analog
Pathway:	Apoptosis; Autophagy; Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years
	In solvent -80°C 6 months
	-20°C 1 month

SOLVENT & SOLUBILITY

		Mass	1 mg	5 mg	10 mg
Prepa Stock		Concentration	8		8
	Preparing Stock Solutions	1 mM	3.7281 mL	18.6407 mL	37.2814 mL
		5 mM	0.7456 mL	3.7281 mL	7.4563 mL
		10 mM	0.3728 mL	1.8641 mL	3.7281 mL

BIOLOGICAL ACTIVITY			
Description	Adenosine-1'- ¹³ C is the ¹³ C labeled Adenosine. Adenosine (Adenine riboside), a ubiquitous endogenous autacoid, acts through the enrollment of four G protein-coupled receptors: A1, A2A, A2B, and A3. Adenosine affects almost all aspects of cellular physiolo		
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):211-216.

[2]. Borea PA, Gessi S, Merighi S, Vincenzi F, Varani K. Pharmacology of Adenosine Receptors: The State of the Art. Physiol Rev. 2018;98(3):1591-1625.;Fredholm BB. Adenosine, an endogenous distress signal, modulates tissue damage and repair. Cell Death Differ.



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

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