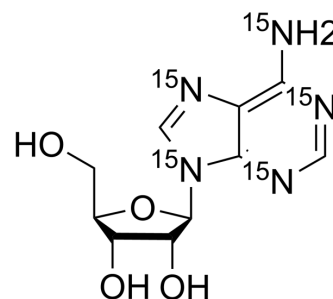


Adenosine-¹⁵N₅

Cat. No.:	HY-B0228S11		
CAS No.:	168566-57-2		
Molecular Formula:	C ₁₀ H ₁₃ ¹⁵ N ₅ O ₄		
Molecular Weight:	272.21		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Adenosine-¹⁵N₅ (Adenine riboside-¹⁵N₅; D-Adenosine-¹⁵N₅) is the ¹⁵N labeled Adenosine (HY-B0228). 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 physiology, including neuronal activity, vascular function, platelet aggregation, and blood cell regulation^{[1][2]}.

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^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zhou XT, et al. Inhibition of autophagy enhances adenosine induced apoptosis in human hepatoblastoma HepG2 cells. *Oncol Rep.* 2019;41(2):829-838.
- [2]. Eltzschig HK. Adenosine: an old drug newly discovered. *Anesthesiology.* 2009;111(4):904-915.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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