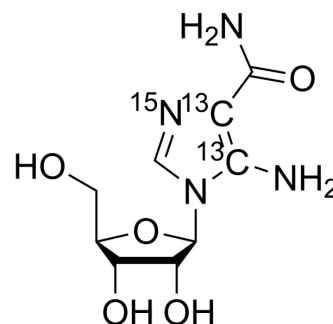


AICAR-¹³C₂,¹⁵N

Cat. No.:	HY-13417S
CAS No.:	1609374-70-0
Molecular Formula:	C ₇ ¹³ C ₂ H ₁₄ N ₃ ¹⁵ NO ₅
Molecular Weight:	261.21
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AICAR- ¹³ C ₂ , ¹⁵ N (Acadesine- ¹³ C ₂ , ¹⁵ N; AICA Riboside- ¹³ C ₂ , ¹⁵ N) is the ¹³ C and ¹⁵ N labeled AICAR (HY-13417) ^[1] . AICAR (Acadesine) is an adenosine analog and a AMPK activator. AICAR regulates the glucose and lipid metabolism, and inhibits proinflammatory cytokines and iNOS production. AICAR is also an autophagy, YAP and mitophagy inhibitor ^{[2][3]} .
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.

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

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