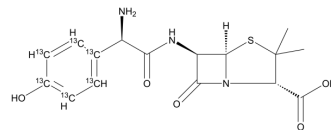


Amoxicillin-¹³C₆

Cat. No.:	HY-B0467AS
Molecular Formula:	C ₁₀ ¹³ C ₆ H ₁₉ N ₃ O ₅ S
Molecular Weight:	371.36
Target:	Bacterial; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Amoxicillin- ¹³ C ₆ is the ¹³ C ₆ labeled Amoxicillin. Amoxicillin is an antibiotic with good oral absorption and broad spectrum antimicrobial activity.
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]. Geddes AM, et al. Introduction: historical perspective and development of amoxicillin/clavulanate. *Int J Antimicrob Agents*. 2007 Dec;30 Suppl 2:S109-12.
- [2]. Handsfield HH, et al. Amoxicillin, a new penicillin antibiotic. *Antimicrob Agents Chemother*. 1973 Feb;3(2):262-5.
- [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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