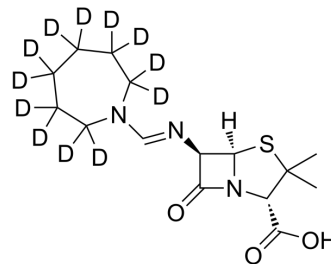


Mecillinam-d12

Cat. No.:	HY-A0269S
Molecular Formula:	C ₁₅ H ₁₁ D ₁₂ N ₃ O ₃ S
Molecular Weight:	337.5
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	Mecillinam-d ₁₂ is deuterium labeled Mecillinam. Mecillinam (Amdinocillin), the β-lactam antibiotic, has a broad spectrum of activity against gram-negative organisms[1].
IC ₅₀ & Target	β-lactam
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]. M E Olson, et al. Amdinocillin Treatment of Catheter-Associated Bacteriuria in Rabbits. *J Infect Dis.* 1989 Jun;159(6):1065-72.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA