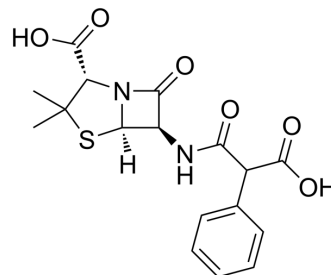


Carbenicillin

Cat. No.:	HY-B0525
CAS No.:	4697-36-3
Molecular Formula:	C ₁₇ H ₁₈ N ₂ O ₆ S
Molecular Weight:	378.4
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Carbenicillin is a broad-spectrum semi-synthetic penicillin antibiotic for gram-negative bacteria. Carbenicillin can interfere the cell wall synthesis while displaying low toxicity to plant tissue ^{[1][2]} .
IC₅₀ & Target	β-lactam
In Vivo	Carbenicillin (100-400 mg/kg; intramuscular injection every 8 h for 72 h) significantly reduces mortality of neutropenic Pseudomonas-infected rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Antimicrob Agents Chemother. 2023 May 18;e0160322.
- Microbiol Spectr. 2023 Apr 24;e0069223.
- Microbiol Spectr. 2022 Dec 8;e0303822.
- ChemRxiv. 2020 Apr.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Scott RE, et, al. Synergistic activity of carbenicillin and gentamicin in experimental Pseudomonas bacteremia in neutropenic rats. Antimicrob Agents Chemother. 1976 Oct;10(4):646-51.
- [2]. Neu HC, et, al. Carbenicillin and ticarcillin. Med Clin North Am. 1982 Jan;66(1):61-77.

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

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