Clavulanic acid is a  $\beta$ -lactam drug that functions as a mechanism-based  $\beta$ -lactamase inhibitor. While not effective by itself as an antibiotic, when combined with penicillin-group antibiotics, it can overcome antibiotic resistance in bacteria that secrete  $\beta$ -lactamase, which otherwise inactivates most penicillins.

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Last update: 2024/06/07 02:59