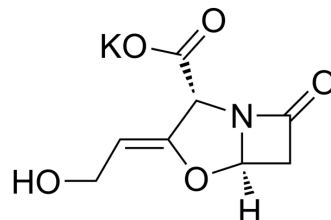


## Clavulanate potassium

Cat. No.:	HY-A0256A
CAS No.:	61177-45-5
Molecular Formula:	C <sub>8</sub> H <sub>8</sub> KNO <sub>5</sub>
Molecular Weight:	237.25
Target:	Bacterial; Antibiotic; Beta-lactamase
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

Description	Clavulanate potassium is a potent $\beta$ -lactamase inhibitor and acts as an antibiotic <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	$\beta$ -lactam
In Vitro	Clavulanate potassium has weak antibacterial activity against most organisms when administered alone, but given in combination with beta-lactam antibiotics prevents antibiotic inactivation by microbial lactamase <sup>[1]</sup> . ?Clavulanate potassium (0.25 mg/L, 0.5 mg/L) causes a relatively slow inhibition of growth, and a higher concentration (1 mg/L) is only marginally more effective than 0.5 mg/L <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Nat Commun. 2022 Mar 2;13(1):1116.
- Int J Mol Sci. 2023 Oct 27, 24(21), 15657.
- Genomics. 2022: 110527.
- Biomed Res Int. 2018 Jul 2;2018:3579832.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Reading C, et al. Clavulanic Acid: a Beta-Lactamase-Inhibiting Beta-Lactam from Streptomyces clavuligerus. Antimicrob Agents Chemother. 1977 May; 11(5): 852–857.
- [2]. Stokes DH, et al. Bactericidal effects of amoxicillin/clavulanic acid against intracellular Legionella pneumophila in tissue culture studies. J Antimicrob Chemother. 1989 Apr;23(4):547-56.

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

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