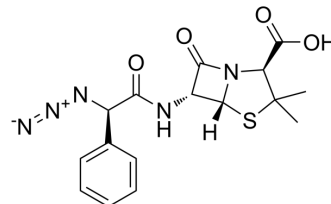


Azidocillin

Cat. No.:	HY-B2091
CAS No.:	17243-38-8
Molecular Formula:	C ₁₆ H ₁₇ N ₅ O ₄ S
Molecular Weight:	375.4
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Azidocillin, a semi-synthetic Penicillin, is an orally active β -lactam antibiotic. Azidocillin bears an azide functionality and retains on-target activity within bacteria. Azidocillin can be used to research osteitis caused by dental surgery, otitis media, enterococcal septicemia and other bacterial infectious diseases ^{[1][2][3]} . Azidocillin is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.
IC ₅₀ & Target	β -lactam

REFERENCES

- [1]. Bystedt H, et al. Concentration of azidocillin, erythromycin, doxycycline and clindamycin in dental alveolar serum after single oral doses. *Int J Oral Surg.* 1977 Apr;6(2):65-74.
- [2]. Spangler B, et al. Molecular Probes for the Determination of Subcellular Compound Exposure Profiles in Gram-Negative Bacteria. *ACS Infect Dis.* 2018 Sep 14;4(9):1355-1367.
- [3]. Bengtsson E, et al. Azidocillin treatment of enterococcal septicemia. *Scand J Infect Dis.* 1972;4(2):143-8.

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

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