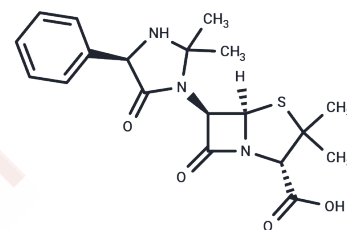


## Hetacillin

## Chemical Properties

CAS No. :	3511-16-8
Formula:	C <sub>19</sub> H <sub>23</sub> N <sub>3</sub> O <sub>4</sub> S
Molecular Weight:	389.47
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Hetacillin is a $\beta$ -lactam antibiotic belonging to the aminopenicillin class. Hetacillin itself is a prodrug and lacks intrinsic antibacterial activity, but it rapidly releases acetone in vivo to generate ampicillin. The active metabolite ampicillin exhibits broad-spectrum antibacterial effects against both Gram-positive and Gram-negative bacteria.
Targets(IC50)	Others, Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5676 mL	12.838 mL	25.6759 mL
5 mM	0.5135 mL	2.5676 mL	5.1352 mL
10 mM	0.2568 mL	1.2838 mL	2.5676 mL
50 mM	0.0514 mL	0.2568 mL	0.5135 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Lindquist DA, et al. Short communication: Pharmacokinetics of intramammary hetacillin in dairy cattle milked 3 times per day. *J Dairy Sci.* 2015 Mar;98(3):1856-61.
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- Gubert S, et al. Synthesis and oral absorption of hetacillin and hetamoxicillin labile esters. *Chem Pharm Bull (Tokyo).* 1987 Jun;35(6):2366-72.
- Couvaris M, et al. Bioavailability of hetacillin in rats after liver enzyme induction by various inducers with or without protein binding properties. *Eur J Drug Metab Pharmacokinet.* 1985 Jan-Mar;10(1):27-32.

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