
Product Data Sheet

Product Name: Hetacillin
 Cat. No.: GC32272

Chemical Properties

Cas. No. 3511-16-8

SMILES O=C([C@@H](C(C)(C)S[C@]1([H])[C@@H]2N(C(C)(C)N[C@@H]3C4=CC=CC=C4)C3=O)N1C2=O)O

Formula C₁₉H₂₃N₃O₄S M.Wt 389.47

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Hetacillin is a prodrug form of the broad-spectrum antibiotic ampicillin.¹ It is converted to ampicillin *via* hydrolysis. Hetacillin is active against several bacteria, including *E. coli*, *S. typhimurium*, *S. flexneri*, *H. influenzae*, and *S. pneumoniae* (MICs = 2.5, 1.25, 2.5, 0.5, and 0.05 µg/ml, respectively). Intramammary administration of hetacillin increases the cure rate of bacterial infections in dairy cows.² Formulations containing hetacillin have been used in the treatment of bovine mastitis.

1. Sutherland, R., and Robinson, O.P.W. Laboratory and pharmacological studies in man with hetacillin and ampicillin. *Br. Med. J.* 2(5555):804-808(1967)
 2. Vasquez, A.K., Nydam, D.V., Capel, M.B., et al. Randomized noninferiority trial comparing 2 commercial intramammary antibiotics for the treatment of nonsevere clinical mastitis in dairy cows. *J. Dairy Sci.* 99(10):8267-8281(2016)

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

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