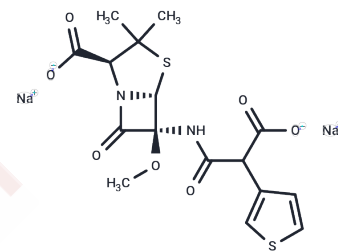


## Temocillin disodium

## Chemical Properties

CAS No. :	61545-06-0
Formula:	C <sub>16</sub> H <sub>16</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>7</sub> S <sub>2</sub>
Molecular Weight:	458.42
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	Temocillin disodium (BRL 17421 disodium) is a carbapenem antibiotic with antimicrobial activity that can be used to study urinary tract infections, bloodstream infections, pneumonia, intra-abdominal infections, central nervous system infections, skin and soft tissue infections, surgical site infections and bone and joint infections.
Targets(IC50)	Antibacterial
In vivo	The dosing regimen of Temocillin disodium is 200 mg/kg every 4 or 6 hours, which significantly reduces the bacterial counts of both strains in the kidneys, with no significant difference observed between the parental strain and its transconjugant. [2]

## Solubility Information

Solubility	H <sub>2</sub> O: 200 mg/mL (436.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1814 mL	10.907 mL	21.8141 mL
5 mM	0.4363 mL	2.1814 mL	4.3628 mL
10 mM	0.2181 mL	1.0907 mL	2.1814 mL
50 mM	0.0436 mL	0.2181 mL	0.4363 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

Jules K, et al. Antibacterial activity and beta-lactamase stability of temocillin. *Antimicrob Agents Chemother.* 1982 Sep;22(3):453-60.

Soubirou JF, et al. Activity of temocillin in a murine model of urinary tract infection due to *Escherichia coli* producing or not producing the ESBL CTX-M-15. *J Antimicrob Chemother.* 2015 May;70(5):1466-72.

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