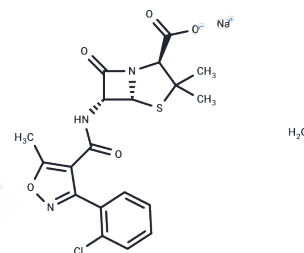


Cloxacillin sodium monohydrate

Chemical Properties

CAS No. :	7081-44-9
Formula:	C ₁₉ H ₁₇ ClN ₃ NaO ₅ ·H ₂ O
Molecular Weight:	475.88
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cloxacillin sodium monohydrate (Cloxacillin Sodium) is the sodium salt of cloxacillin, a semisynthetic beta-lactamase resistant penicillin antibiotic with antibacterial activity.
Targets(IC50)	Antibacterial,Antibiotic
In vivo	Prochlorperazine is showed to be able to induce antinociception in mice. prochlorperazine-treated mice show a complete integrity of motor co-ordination on the rota-rod test, normal spontaneous motility, as well as exploratory behaviour as revealed by the hole-board test. The antinociceptive effect of prochlorperazine appears to be due to the antagonism of D2 receptors since the increase of the pain threshold induced by the investigated compound is prevented by pretreatment with the D2 agonist quinpirole[1].

Solubility Information

Solubility	H2O: 50 mg/mL (105.07 mM),Sonication is recommended. Ethanol: 24 mg/mL (50.43 mM),Sonication is recommended. DMSO: 40 mg/mL (84.05 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	2.1014 mL	10.5069 mL	21.0137 mL
5 mM	0.4203 mL	2.1014 mL	4.2027 mL
10 mM	0.2101 mL	1.0507 mL	2.1014 mL
50 mM	0.042 mL	0.2101 mL	0.4203 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.

Reference

Roy DK, et al. Spectrochim Acta A Mol Biomol Spectrosc. 2005 Jul;61(9):2017-22.

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