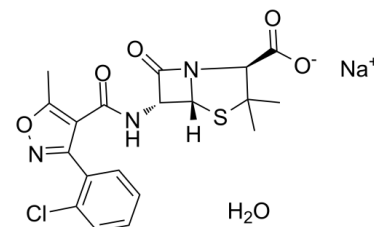


Data Sheet

Product Name:	Cloxacillin (sodium monohydrate)
Cat. No.:	CS-2580
CAS No.:	7081-44-9
Molecular Formula:	C ₁₉ H ₁₉ ClN ₃ NaO ₆ S
Molecular Weight:	475.88
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : 100 mg/mL (210.14 mM; Need ultrasonic); H ₂ O : 50 mg/mL (105.07 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Cloxacillin sodium monohydrate is a semi-synthetic antibiotic that is a chlorinated derivative of oxacillin. Target: Antibacterial. Cloxacillin sodium (Cloxacap) is a sodium salt of cloxacillin that is a penicillinase-resistant, acid resistant, semi-synthetic penicillin. Cloxacillin sodium exerts a bactericidal action against susceptible microorganisms during the stage of active multiplication. Cloxacillin sodium acts through the inhibition of biosynthesis of cell wall mucopeptides. Cloxacillin sodium is readily absorbed following i.m. administration and rapidly reaches therapeutically effective blood levels. Serum levels are approximately proportional to dosage. Peak plasma concentrations of 15 ug/ml have been observed 30 minutes after an i.m. injection of cloxacillin (Cloxapen, Cloxacap and Orbenin) 500 mg; plasma concentrations may be doubled by administration of a doubled dose. At the end of a 3-hour i.v. infusion of cloxacillin (Cloxapen, Cloxacap and Orbenin) 250 mg given to normal subjects, its plasma concentrations were 15 ug/ml. After 2 hours, plasma concentrations were 0.6 ug/ml [1].

References:

[1]. <http://www.drugbank.ca/drugs/DB0114>

CAIndexNames:

4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]carbonyl]amino]-3,3-dimethyl-7-oxo-, sodium salt, hydrate (1:1:1), (2S,5R,6R)-

SMILES:

[O-]C([C@H]1N2[C@@](SC1(C)C)([H])[C@@H](C2=O)NC(C(C(C=CC=C3)=C3Cl)=NO4)=C4C)=O.[Na+].O

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

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