

Cloxacillin sodium

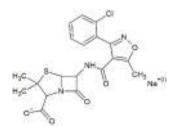
ALTERNATE NAME: Sodium cloxacillin

(2S,5R,6R)-6-[[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl] carbonyl] amino]-3,3-dimethyl-7-oxo-4-thia-1-isoxazolyl] carbonyl] carbo

azabicyclo[3.2.0]heptane-2-carboxylic acid, monosodium salt

CATALOG #:B2687-50 50 mg
B2687-250 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₉H₁₇CIN₃O₅S • Na

MOLECULAR WEIGHT: 457.9

CAS NUMBER: 642-78-4

APPEARANCE: White to off-white solid

PURITY: ≥95%

SOLUBILITY: ~15 mg/ml DMSO

DESCRIPTION: Cloxacillin sodium is a β -lactam antibiotic of penicillin subclass, which inhibits bacterial cell wall

synthesis by targeting the proteoglycan synthesis. Cloxacillin has a narrow spectrum of action and is effective against Gram-positive organisms. Cloxacillin binds to S. aureus penicillin-binding protein 1 (PBP1), PBP2, PBP3, and PBP4 (IC50s = 0.04, 0.12, 0.21, and 2.5 μ g/ml, respectively). Cloxacillin is resistant to the action of β -lactamase and therefore preferentially used for treatment of Staphylococcal

infections.

STORAGE TEMPERATURE: -20°C. Protect from moisture

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of

exposure.

RELATED PRODUCTS:

Rifampicin (B1511) Streptomycin Sulfate (2517) Clindamycin hydrochloride (2627) Oxytetracycline Hydrochloride (B1527) Chloramphenicol, USP Grade (2486)

DISCLAIMER: FOR RESEARCH USE ONLY! Not to be used on humans.