



Product Information

Antifection inhibitor Azlocillin sodium salt, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ055

Size: 50 mg; 100 mg; 500 mg

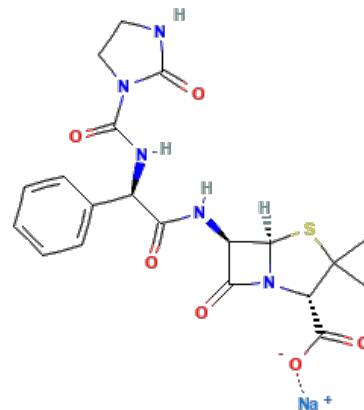
MDL: MFCD07793330

CAS Number: 37091-65-9

Compound CID: 23685176

Synonym: 37091-65-9; Antifection inhibitor; Sodium azlocillin

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Azlocillin sodium salt, soluble in DMSO, water and ethanol, has strong immunosuppressant properties. It targets β -lactam and plasmodium.
Molecular Weight	484.48
Molecular Formula	C ₂₀ H ₂₃ N ₅ O ₆ S.Na
Targets	β -lactam; Plasmodium
IUPAC Name	Sodium;(2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-3,3-dimethyl-7-oxo-6-[[[(2 <i>R</i>)-2-[(2-oxoimidazolidine-1-carbonyl)amino]-2-phenylacetyl]amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate
InChI	InChI=1S/C20H23N5O6S.Na/c1-20(2)13(17(28)29)25-15(27)12(16(25)32-20)22-14(26)11(10-6-4-3-5-7-10)23-19(31)24-9-8-21-18(24)30;/h3-7,11-13,16H,8-9H2,1-2H3,(H,21,30)(H,22,26)(H,23,31)(H,28,29);/q;+1/p-1/t11-,12-,13+,16-;/m1./s1
InChI Key	UVOCNBWUHNCKJM-XFAPPKAWSA-M
Canonical SMILES	CC1(C(N2C(S1)C(C2=O)NC(=O)C(C3=CC=CC=C3)NC(=O)N4CCNC4=O)C(=O)[O-])C.[Na+]
Isomeric SMILES	CC1([C@@H](N2[C@H](S1)[C@@H](C2=O)NC(=O)[C@@H](C3=CC=CC=C3)NC(=O)N4CCNC4=O)C(=O)[O-])C.[Na+]
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 92 mg/mL (189.89 mM); Water: 92 mg/mL (189.89 mM); Ethanol: 3 mg/mL (6.19 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Quality Level	Research grade
Applications	Azlocillin sodium salt is applied in studies for its antibacterial efficacy, particularly against <i>Pseudomonas aeruginosa</i> , contributing to research on combating antibiotic-resistant infections.
Storage	Store at -20°C, and keep desiccated.
