

Product Information

Antifection inhibitor Clindamycin phosphate, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ063

Size: 50 mg; 100 mg; 500 mg

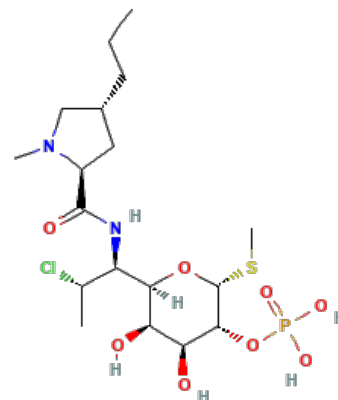
MDL: MFCD07793328

CAS Number: 24729-96-2

Compound CID: 443385

Synonym: 24729-96-2; Antifection inhibitor; Clindamycin 2-dihydrogen phosphate; Clindamycin 2-phosphate; U-28508

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



Product Information

Description	Clindamycin phosphate, soluble in water and insoluble in DMSO and ethanol, has strong immunosuppressant properties.
Molecular Weight	504.96
Molecular Formula	C ₁₈ H ₃₄ ClN ₂ O ₈ PS
IUPAC Name	[(2 <i>R</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-[(1 <i>S</i> ,2 <i>S</i>)-2-chloro-1-[[[(2 <i>S</i> ,4 <i>R</i>)-1-methyl-4-propylpyrrolidine-2-carbonyl]amino]propyl]-4,5-dihydroxy-2-methylsulfanyloxan-3-yl] dihydrogen phosphate
InChI	InChI=1S/C18H34ClN2O8PS/c1-5-6-10-7-11(21(3)8-10)17(24)20-12(9(2)19)15-13(22)14(23)16(18(28-15)31-4)29-30(25,26)27/h9-16,18,22-23H,5-8H2,1-4H3,(H,20,24)(H2,25,26,27)/t9-,10+,11-,12+,13+,14-,15+,16+,18+/m0/s1
InChI Key	UFUVLHLTWXBHGZ-MGZQPHG TSA-N
Canonical SMILES	CCCC1CC(N(C1)C)C(=O)NC(C2C(C(C(C(O2)SC)OP(=O)(O)O)O)C(C)Cl
Isomeric SMILES	CCC[C@@H]1C[C@H](N(C1)C)C(=O)N[C@@H]([C@@H]2[C@@H]([C@H]([C@H]([C@H](O2)SC)OP(=O)(O)O)O)[C@H](C)Cl
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: Insoluble; Water: 95 mg/mL (188.13 mM); Ethanol: Insoluble
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	Clindamycin phosphate is evaluated in research for its topical application in treating acne and skin infections due to its properties as a lincosamide antibiotic.
Storage	Store at -20°C, and keep desiccated.
