



Product Information

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

Cat. No.: X24-07-ZQ062

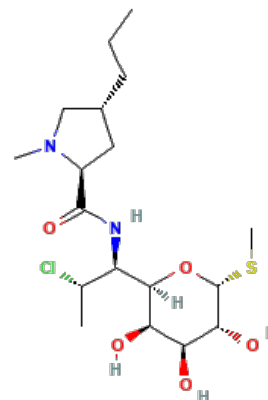
Size: 50 mg; 100 mg; 500 mg

CAS Number: 18323-44-9

Compound CID: 446598

Synonym: 18323-44-9; Antifection inhibitor

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



Product Information

Description	Clindamycin, soluble in DMSO and ethanol and insoluble in water, has strong immunosuppressant properties.
Molecular Weight	424.98
Molecular Formula	C ₁₈ H ₃₃ ClN ₂ O ₅ S
IUPAC Name	(2S,4R)-N-[(1S,2S)-2-chloro-1-[(2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-methylsulfanyloxan-2-yl]propyl]-1-methyl-4-propylpyrrolidine-2-carboxamide
InChI	InChI=1S/C18H33ClN2O5S/c1-5-6-10-7-11(21(3)8-10)17(25)20-12(9(2)19)16-14(23)13(22)15(24)18(26-16)27-4/h9-16,18,22-24H,5-8H2,1-4H3,(H,20,25)/t9-,10+,11-,12+,13-,14+,15+,16+,18+/m0/s1
InChI Key	KDLRVYVGXIQJDK-AWPVFWJPSA-N
Canonical SMILES	CCCC1CC(N(C1)C)C(=O)NC(C2C(C(C(C(O2)SC)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)O)O)[C@H](C)Cl
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 82 mg/mL (192.94 mM); Water: Insoluble; Ethanol: 82 mg/mL (192.94 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	Clindamycin is studied for its effectiveness in inhibiting bacterial protein synthesis, primarily against anaerobic bacteria and certain protozoa, in the context of treating bacterial infections.



Storage

Store at -20°C, and keep desiccated.
