

Product Name	: Dianemycin
Synonyms	: Nanchangmycin (free acid)
Cat No.	: M21964
CAS Number	: 35865-33-9
Molecular Formula	: C ₄₇ H ₇₈ O ₁₄
Formula Weight	: 867.11
Chemical Name	: —
Description	: Dianemycin is a broad spectrum polyether antibiotic, inhibits gram-positive bacteria. Nanchangmycin is a broad spectrum antiviral active against Zika virus
Pathway	: GPCR/G Protein
Target	: Antibacterial
Receptor	: Bacterial
Solubility	: DMSO: 150 mg/ml (172.99 mM); Need ultrasonic
SMILES	: <chem>[H][C@@]1(C[C@H](O[C@@H]2CC[C@H](OC)[C@@H](C)O2)[C@@H](C)[C@@]2(O[C@H](C[C@H]2C)[C@@]2([H])O[C@@](O)(CO)[C@H](C)C[C@@H]2CO1)[C@]1(C)CC[C@]2(C[C@H](O)[C@@H](C)[C@]([H])(O2)[C@@H](C)C=C(C)C(=O)[C@H](C)C[C@H](C)C(O)=O)O1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Hamill R L, Hoenh M M, Pittenger G E, et al. DIANEMYCIN, AN ANTIBIOTIC OF THE GROUP AFFECTING ION TRANSPORT[J]. The Journal of Antibiotics, 1969, 22(4):161-164. 2. Rausch K, et al. Screening Bioactives Reveals Nanchangmycin as a Broad Spectrum Antiviral Active against Zika Virus. Cell Rep. 2017 Jan 17; 18(3):804-815. 3. Liu T, et al. Mechanism of thioesterase-catalyzed chain release in the biosynthesis of the polyether antibiotic Nanchangmycin. Chem Biol. 2008 May; 15(5):449-58.