Data Sheet (Cat.No.T27008)

TargetMol

Chloroorienticin A

Chemical Properties

CAS No. : 118395-73-6

Formula: C73H88Cl2N10O26

Molecular Weight: 1592.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Chloroorienticin A is a glycopeptide antibiotic that exerts its antibacterial activity by binding to the D-Ala-D-Ala termini of peptidoglycan precursors, thereby inhibiting bacterial cell wall biosynthesis. It shows strong activity against Gram-positive bacteria, particularly Staphylococcus and Streptococcus species.
Targets(IC50)	Antibiotic

Solubility Information

Solubility	H2O: 80 mg/mL (50.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.628 mL	3.1398 mL	6.2796 mL
5 mM	0.1256 mL	0.628 mL	1.2559 mL
10 mM	0.0628 mL	0.314 mL	0.628 mL
50 mM	0.0126 mL	0.0628 mL	0.1256 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zweifel MJ, et, al. Glycopeptide carboxamides active against vancomycin-resistant enterococci. J Antibiot (Tokyo). 2003 Mar;56(3):289-95.

Pavlov AIu, Preobrazhenskaia MN. [Chemical modification of glycopeptide antibiotics]. Bioorg Khim. 1998 Sep;24 (9):644-62. Review. Russian. PubMed PMID: 9813730.

Rodriguez MJ, Snyder NJ, Zweifel MJ, Wilkie SC, Stack DR, Cooper RD, Nicas TI, Mullen DL, Butler TF, Thompson RC. Novel glycopeptide antibiotics: N-alkylated derivatives active against vancomycin-resistant enterococci. J Antibiot (Tokyo). 1998 Jun;51(6):560-9. PubMed PMID: 9711219.

LeTourneau DL, Allen NE. Use of capillary electrophoresis to measure dimerization of glycopeptide antibiotics. Anal Biochem. 1997 Mar 1;246(1):62-6. PubMed PMID: 9056183.

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