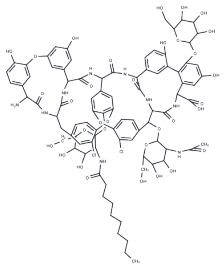
Data Sheet (Cat.No.T0967)

TargetMol

Teicoplanin

Chemical Properties



CAS No. : 61036-62-2

Formula: C88H97Cl2N9O33

Molecular Weight: 1879.67

Storage: Keep away from moisture
Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Teicoplanin (MDL-507) is a semisynthetic glycopeptide antibiotic, used to treat Gram-positive bacteria.
Targets(IC50)	Antibacterial,Antibiotic
In vivo	Teicoplanin therapy increases the survival rate whereas G-CSF therapy does not in comparison to other groups in neutropenic mice. Teicoplanin and G-CSF combination therapy improves survival rate when compared with groups II, III, IV. [5]

Solubility Information

Solubility	H2O: 100.00 mg/mL (53.20 mM),Sonication is recommended. DMSO: 127.50 mg/mL (67.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.00 mg/mL (2.13 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.532 mL	2.660 mL	5.3201 mL
5 mM	0.1064 mL	0.532 mL	1.064 mL
10 mM	0.0532 mL	0.266 mL	0.532 mL
50 mM	0.0106 mL	0.0532 mL	0.1064 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

Samonis G, et al. Med Mycol,2006, 44(2), 193-196.
Davis T D, Kunakom S, Burkart M D, et al. Preparation, Assay and Application of Chlorinase SalL for the Chemoenzymatic Synthesis of S-Adenosyl-l-Methionine and Analogs. Methods in enzymology. Academic Press. 2018, 604: 367-388
Filice G, et al. Microbiologica, 1990, 13(3), 231-237.
Cheng JK, et al. J Pharmacol Sci, 2006, 100(5), 471-486.
Chmara H, et al. J Gen Microbiol, 1991, 137(4), 913-919.
Oz N, et al. Int J Surg Investig,2001, 2(5), 347-352.
Davis T D, Kunakom S, Burkart M D, et al. Preparation, Assay, and Application of Chlorinase SalL for the Chemoenzymatic Synthesis of S-Adenosyl-L-Methionine and Analogs[M]//Methods in enzymology. Academic Press. 2018;604:367-388.