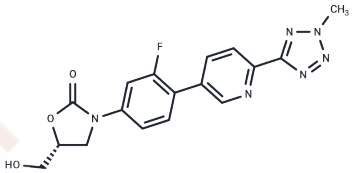
Data Sheet (Cat.No.T1747)

TargetMol

Tedizolid

Chemical Properties



CAS No. : 856866-72-3

Formula: C17H15FN6O3

Molecular Weight: 370.34

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	Tedizolid (DA-7157)is a novel oxazolidinone-class antibiotic that inhibits bacterial protein synthesis by binding to the 23S ribosomal RNA of the 50S subunit of the ribosome.
Targets(IC50)	MAO,Antibacterial,Antibiotic
In vitro	Tedizolid (0.25 μg/mL) effectively inhibits all 28 clinical isolates of PRSP, demonstrating a potency four times greater than linezolid against PRSP[1].
In vivo	The tedizolid phosphate at a minimum total daily dose of 10 mg/kg achieved a 100% survival rate for mice infected with PSSP type III. Lungs of infected mice treated with tedizolid phosphate show less severe inflammation and edema, as indicated by the mean scores for inflammation and edema[1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble),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: 1 mg/mL (2.7 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	2.7002 mL	13.5011 mL	27.0022 mL
5 mM	0.540 mL	2.7002 mL	5.4004 mL
10 mM	0.270 mL	1.3501 mL	2.7002 mL
50 mM	0.054 mL	0.270 mL	0.540 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

Choi S, et al. Activity of Tedizolid Phosphate (TR-701) in Murine Models of Infection with Penicillin-resistant and Penicillin-sensitive Streptococcus pneumoniae. Antimicrob Agents Chemother. 2012 Jun 19.