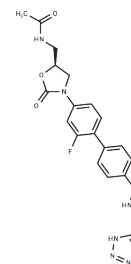


Radezolid

Chemical Properties

CAS No. :	869884-78-6
Formula:	C ₂₂ H ₂₃ FN ₆ O ₃
Molecular Weight:	438.45
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	Radezolid (RX-1741) is a novel oxazolidinone antibiotic.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Radezolid consistently demonstrates superior potency to linezolid across all tested bacteria, maintaining this advantage regardless of the bacterium's sensitivity, when the concentration measurements are standardized to weight (mg/L). This is evidenced by Radezolid's MIC values, which are always equal to or lower than those of linezolid—by up to 3 log ₂ dilutions—for strains susceptible to linezolid, and exhibit an 8-fold potency increase against linezolid-resistant strains. Additionally, Radezolid, alongside TR-700, is effective against mutants with 3-copy alterations at G2447T, G2576T, and G2576T/T2571C positions [1][2].

Solubility Information

Solubility	DMSO: 35.07 mg/mL (79.99 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (5.7 mM), Solution. 10% DMSO+90% Saline: < 2.5 mg/mL (5.7 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2808 mL	11.4038 mL	22.8076 mL
5 mM	0.4562 mL	2.2808 mL	4.5615 mL
10 mM	0.2281 mL	1.1404 mL	2.2808 mL
50 mM	0.0456 mL	0.2281 mL	0.4562 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

Lemaire S, et al. Cellular pharmacodynamics of the novel biaryloxazolidinone radezolid: studies with infected phagocytic and nonphagocytic cells, using *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Listeria monocytogenes*, and *Legionella pneumophila*.

Locke JB, et al. Structure-activity relationships of diverse oxazolidinones for linezolid-resistant *Staphylococcus aureus* strains possessing the *cfr* methyltransferase gene or ribosomal mutations. *Antimicrob Agents Chemother.* 2010 Dec;54(12):5337-43.

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