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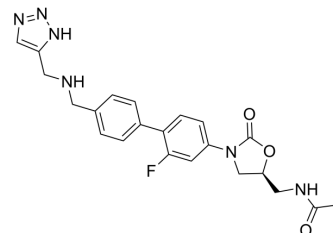
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Radezolid

Cat. No.:	HY-14800
CAS No.:	869884-78-6
Molecular Formula:	C ₂₂ H ₂₃ FN ₆ O ₃
Molecular Weight:	438.45
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 25 mg/mL (57.02 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Radezolid (RX-1741) is a oxazolidinone antibiotic. Radezolid is active against *Staphylococcus*, *Chlamydia*, and *Legionella* species, and remains active against Linezolid-resistant strains^{[1][2]}.

IC₅₀ & Target

Oxazolidinone

In Vitro

Radezolid MICs are systematically equal to or lower (up to 3 log₂ dilutions) than those of linezolid for all linezolid-

susceptible strains, with an 8-fold difference for the linezolid-resistant strains. Radezolid shows a greater potency than linezolid, independent of the bacteria tested, when concentrations are expressed on a weight (mg/L) basis. Radezolid shows an improved potency compared to that of linezolid when concentrations are expressed on a weight (mg/L) basis^[1]. Radezolid and TR-700 perform well against 3-copy G2447T, G2576T, and G2576T/T2571C mutants^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[1]

Antibiotic accumulation is determined following the general procedure, and the cellular content of [¹⁴C]radezolid is assayed in cell lysates by liquid scintillation counting (lowest limit of detection, 0.003 mg/liter; linear response between 0.01 and 0.78 mg/liter; R²=0.999). All cell drug contents are expressed by reference to the total cell protein content and converted into apparent total cell concentrations using a conversion factor of 5 µL per mg of cell protein.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Br J Cancer. 2021 Mar 24.
- Front Microbiol. 2023 Apr 26;14:1131178.
- Front Microbiol. 2020 Feb 14;11:196.
- Antimicrob Agents Chemother. 2023 Mar 15:e0165522.
- Microb Pathog. 2020 Feb;139:103866.

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REFERENCES

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

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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