



上海源叶生物科技有限公司
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产品名称: **Radezolid**
产品别名: **RX-1741**

生物活性:				
Description	Radezolid is a novel oxazolidinone antibiotic agent.			
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].			
Solvent&Solubility	In Vitro: DMSO : ≥ 25 mg/mL (57.02 mM) * " \geq " means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	2.2808 mL	11.4038 mL
		5 mM	0.4562 mL	2.2808 mL
		10 mM	0.2281 mL	1.1404 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.70 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀; 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 生理盐水定容至 1 mL。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE- β -CD in saline) Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.70 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 20% 的 SBE- β -CD 生理盐水水溶液中, 混合均匀。			



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	<p>3.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.70 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Lemaire S, et al. Cellular pharmacodynamics of the novel biarylloxazolidinone radezolid: studies with infected phagocytic and nonphagocytic cells, using <i>Staphylococcus aureus</i>, <i>Staphylococcus epidermidis</i>, <i>Listeria monocytogenes</i>, and <i>Legionella pneumophila</i>.</p> <p>[2]. Locke JB, et al. Structure-activity relationships of diverse oxazolidinones for linezolid-resistant <i>Staphylococcus aureus</i> strains possessing the <i>cfr</i> methyltransferase gene or ribosomal mutations. <i>Antimicrob Agents Chemother</i>. 2010 Dec;54(12):5337-43.</p>
实验参考:	
Cell Assay	<p>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; $R^2=0.999$). 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. [1]</p>
References	<p>[1]. Lemaire S, et al. Cellular pharmacodynamics of the novel biarylloxazolidinone radezolid: studies with infected phagocytic and nonphagocytic cells, using <i>Staphylococcus aureus</i>, <i>Staphylococcus epidermidis</i>, <i>Listeria monocytogenes</i>, and <i>Legionella pneumophila</i>.</p> <p>[2]. Locke JB, et al. Structure-activity relationships of diverse oxazolidinones for linezolid-resistant <i>Staphylococcus aureus</i> strains possessing the <i>cfr</i> methyltransferase gene or ribosomal mutations. <i>Antimicrob Agents Chemother</i>. 2010 Dec;54(12):5337-43.</p>

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