

产品名称：特地唑胺

产品别名：Tedizolid; TR 700; Torezolid; DA-7157

生物活性:					
Description	Tedizolid (TR 700; Torezolid; DA-7157) is a novel oxazolidinone, acting through inhibition of bacterial protein synthesis by binding to 23S ribosomal RNA (rRNA) of the 50S subunit of the ribosome.				
In Vitro	Tedizolid (0.25 µg/mL) inhibits all 28 clinical isolates of PRSP, and is 4-fold more potent than linezolid against PRSP[1].				
In Vivo	For mice infected with PSSP type III, the 100% survival rate is achieved with tedizolid phosphate at a minimum total daily dose of 10 mg/kg. 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].				
Solvent&Solubility	In Vitro: DMSO : 10 mg/mL (27.00 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.7002 mL	13.5011 mL	27.0022 mL
		5 mM	0.5400 mL	2.7002 mL	5.4004 mL
		10 mM	0.2700 mL	1.3501 mL	2.7002 mL
	<p>*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。</p> <p>储备液的保存方式和期限：-80℃, 6 months; -20℃, 1 month。-80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。</p> <p>In Vivo:</p> <p>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：</p> <p>——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</p>				
	<p>1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p> <p>Solubility: ≥ 1 mg/mL (2.70 mM); Clear solution</p> <p>此方案可获得 ≥ 1 mg/mL (2.70 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例，取 100 µL 10.0 mg/mL 的澄清 DMSO 储备液加到 400 µL PEG300 中，混合均匀；向上述体系中加入 50 µL Tween-80，混合均匀；然后继续加入 450 µL 生理盐水定容至 1 mL</p>				
	<p>2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)</p> <p>Solubility: ≥ 1 mg/mL (2.70 mM); Clear solution</p> <p>此方案可获得 ≥ 1 mg/mL (2.70 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例，取 100 µL 10.0 mg/mL 的澄清 DMSO 储备液加到 900 µL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。</p>				
References	[1]. 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.				
实验参考:					

Animal Administration	<p>To induce a systemic <i>S. pneumoniae</i> infection, male ICR mice (weight, 18 to 20 g) are inoculated intraperitoneally with 1 of 4 PRSP isolates (DR9, DR10, DR11, or DR14) suspended in 10% mucin. The suspension contained sufficient bacteria to kill 100% of untreated control mice. At 1 h postinfection, mice receives a single dose of either tedizolid phosphate or linezolid, and survival is assessed daily for 7 days postinfection. Treatments are delivered both orally and intravenously at each of four doses (40 mg/kg of body weight, 13.33 mg/kg, 4.44 mg/kg, and 1.48 mg/kg), with 8 mice per group defined by dose, delivery method, and infecting strain. The 50% effective dose (ED₅₀), i.e., the dose allowing survival of 50% of the infected mice, is calculated for each delivery route using probit analysis. [1]</p>
References	<p>[1]. Choi S, et al. Activity of Tedizolid Phosphate (TR-701) in Murine Models of Infection with Penicillin-resistant and Penicillin-sensitive <i>Streptococcus pneumoniae</i>. <i>Antimicrob Agents Chemother</i>. 2012 Jun 19.</p>



源叶生物