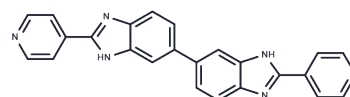


Ridinilazole

Chemical Properties

CAS No. :	308362-25-6
Formula:	C ₂₄ H ₁₆ N ₆
Molecular Weight:	388.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ridinilazole (SMT19969) is a novel narrow-spectrum nonabsorbable antibiotic. Ridinilazole showed potent inhibition of <i>C. difficile</i> (MIC ₉₀ =0.125 mg/L) and was markedly more active than either metronidazole (MIC ₉₀ = 8 mg/L) or vancomycin (MIC ₉₀ = 2 mg/L).
Targets(IC ₅₀)	Antibacterial
In vivo	ridinilazole , a novel antibacterial currently under development for the treatment of CDI. Owing to its highly targeted spectrum of activity and ability to spare the normal gut microbiota, ridinilazole provides significant advantages over metronidazole and vancomycin, the mainstay antibiotics for CDI. Ridinilazole is bactericidal against <i>C. difficile</i> and exhibits a prolonged post-antibiotic effect. Furthermore, treatment with ridinilazole results in decreased toxin production.

Solubility Information

Solubility	DMSO: 55 mg/mL (141.6 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5745 mL	12.8727 mL	25.7453 mL
5 mM	0.5149 mL	2.5745 mL	5.1491 mL
10 mM	0.2575 mL	1.2873 mL	2.5745 mL
50 mM	0.0515 mL	0.2575 mL	0.5149 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.

Reference

Vickers RJ, et al. Ridinilazole: a novel therapy for Clostridium difficile infection. Int J Antimicrob Agents. 2016 Aug; 48(2):137-43.