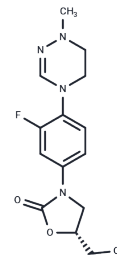


Delpazolid

Chemical Properties

CAS No. :	1219707-39-7
Formula:	C ₁₄ H ₁₇ N ₃ O ₃
Molecular Weight:	308.31
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	Delpazolid (LCB01-0371), also known as LCB01-0371, is a new oxazolidinone with cyclic amidrazone. In vitro activity of LCB01-0371 against 624 clinical isolates was evaluated and compared with those of linezolid, vancomycin, and other antibiotics. LCB01-0371 showed good activity against Gram-positive pathogens. In vivo activity of LCB01-0371 against systemic infections in mice was also evaluated. LCB01-0371 was more active than linezolid against these systemic infections. LCB01-0371 showed bacteriostatic activity against Staphylococcus aureus.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 13 mg/mL (42.17 mM), Sonication is 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 mg/mL (6.49 mM), Sonication is recommended. <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	3.2435 mL	16.2174 mL	32.4349 mL
5 mM	0.6487 mL	3.2435 mL	6.487 mL
10 mM	0.3243 mL	1.6217 mL	3.2435 mL
50 mM	0.0649 mL	0.3243 mL	0.6487 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

Jeong JW, et al. In vitro and in vivo activities of LCB01-0371, a new oxazolidinone. *Antimicrob Agents Chemother.* 2010 Dec;54(12):5359-62. Jeong JW1,
Kim TS, et al. Activity of LCB01-0371, a Novel Oxazolidinone, against *Mycobacterium abscessus*. *Antimicrob Agents Chemother.* 2017 Aug 24;61(9). pii: e02752-16. Kim TS1,2,
Choi Y, et al. Safety, tolerability and pharmacokinetics of 21 day multiple oral administration of a new oxazolidinone antibiotic, LCB01-0371, in healthy male subjects. *J Antimicrob Chemother.* 2017 Oct 23. doi: 10.1093/jac/dkx367.

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