

Rezafungin acetate

Chemical Properties

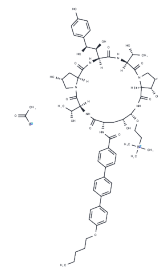
CAS No. : 1631754-41-0

Formula: C₆₅H₈₈N₈O₁₉

Molecular Weight: 1285.44

Storage: Store at low temperature, Keep away from moisture
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	Rezafungin acetate (Biafungin acetate) is a echinocandin with antimicrobial activity that inhibits 1,3-β-D-glucan synthase. It can be used for research on invasive fungal diseases in hematopoietic and bone marrow transplant recipients.
Targets(IC50)	Antifungal
In vivo	Rezafungin acetate (1 mg/kg; intraperitoneal injection once daily for 6 days) demonstrated favorable in vivo prophylaxis against Pneumocystis carinii infection in a mouse model of infection. [1]

Solubility Information

Solubility	DMSO: 250 mg/mL (194.49 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: 5 mg/mL (3.89 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (7.78 mM), Solution. <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	0.7779 mL	3.8897 mL	7.7794 mL
5 mM	0.1556 mL	0.7779 mL	1.5559 mL
10 mM	0.0778 mL	0.389 mL	0.7779 mL
50 mM	0.0156 mL	0.0778 mL	0.1556 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

Cushion Melanie, et al. Rezafungin prophylactic efficacy in a mouse model of Pneumocystis pneumonia. *Biology of Blood and Marrow Transplantation* 25.3 (2019): S366.

Sofjan AK, et al. Rezafungin (CD101), a next-generation echinocandin: A systematic literature review and assessment of possible place in therapy. *J Glob Antimicrob Resist.* 2018 Sep;14:58-64.

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