Product Data Sheet

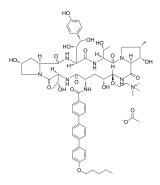
Rezafungin acetate

Cat. No.: HY-108009A
CAS No.: 1631754-41-0
Molecular Formula: $C_{68}H_{88}N_8O_{19}$
Molecular Weight: 1285.44
Target: Fungal

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO: 230 mg/mL (178.93 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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	0.3890 mL	0.7779 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5.75 mg/mL (4.47 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5.75 mg/mL (4.47 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5.75 mg/mL (4.47 mM); Clear solution

BIOLOGICAL ACTIVITY

DescriptionRezafungin acetate (Biafungin acetate) is a next-generation, broad-spectrum, and long-lasting echinocandin. Rezafungin acetate shows potent antifungal activity against Candida spp., Aspergillus spp., and Pneumocystis spp. [1][2].

In Vivo Rezafungin acetate (Biafungin acetate) (1 mg/kg; i.p. once daily for 6 days) shows potent in vivo efficacy as prophylaxis against Pneumocystis in a mouse infection model^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: C3H/HeN mice^[1]

Dosage:	1 mg/kg
Administration:	Intraperitoneal injection; once daily for 6 days
Result:	Significantly reduced nuclei and asci burdens.

REFERENCES

[1]. Melanie Cushion, et al. Rezafungin Prophylactic Efficacy in a Mouse Model of Pneumocystis Pneumonia. VOLUME 25, ISSUE 3, SUPPLEMENT, S366, MARCH 01, 2019.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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