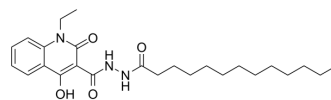


I2906

Cat. No.:	HY-76293		
CAS No.:	331963-29-2		
Molecular Formula:	C ₂₅ H ₃₇ N ₃ O ₄		
Molecular Weight:	443.58		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (56.36 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2544 mL	11.2719 mL	22.5438 mL
	5 mM	0.4509 mL	2.2544 mL	4.5088 mL
	10 mM	0.2254 mL	1.1272 mL	2.2544 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (5.64 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

I2906 showed antimycobacterial and cytotoxic activity against mycobacterium tuberculosis. IC₅₀ Value: Target: Antibacterial. Under in vitro conditions, I2906 showed excellent antimycobacterial activities and low cytotoxicity. In a murine model infected with *M. tuberculosis* H37Rv, the reductions on bacterial loads of both lungs and spleen were statistically significant ($p < 0.05$) between I2906-treated mice and untreated controls after 4 weeks. Further, the colony-forming unit counts in the lungs were dramatically lower ($p < 0.05$) than that of isoniazid-treated mice by the addition of I2906 after 8 weeks. Moreover, survival rate was increased by I2906 treatment. For multidrug-resistant strain infection, bacterial counts were reduced significantly in the lungs and spleen due to I2906 treatment in comparison with data from untreated controls ($p < 0.05$).

CUSTOMER VALIDATION

- Pharmacology. 2010;85(6):365-71.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Lu, Jingning; Yue, Jun; Wu, Jing et al. In vitro and in vivo Activities of a New Lead Compound I2906 against Mycobacterium tuberculosis. Pharmacology (2010), 85(6), 365-371.

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

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