

I2906

Chemical Properties

CAS No. : 331963-29-2

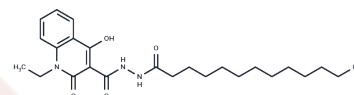
Formula: C₂₅H₃₇N₃O₄

Molecular Weight: 443.58

Store at low temperature

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	I2906 has antimicrobial activity and inhibits Mycobacterium tuberculosis.
Targets(IC50)	Antibacterial
In vitro	I2906 exhibits excellent antimycobacterial activity and low cytotoxicity. [1]
In vivo	In a mouse model of Mycobacterium tuberculosis H37Rv infection, the bacterial load in the lungs and spleens of mice was significantly reduced after 4 weeks of I2906 treatment compared to untreated controls. In addition, after extending I2906 treatment to 8 weeks, the colony-forming unit counts in the lungs of mice were significantly lower than those of mice treated with isoniazid. Further studies showed that I2906 treatment significantly improved the survival rate of the mice. [1]

Solubility Information

Solubility	DMSO: 15 mg/mL (33.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (3.38 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	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
50 mM	0.0451 mL	0.2254 mL	0.4509 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

Lu Jingning, et al. In vitro and in vivo Activities of a New Lead Compound I2906 against Mycobacterium tuberculosis. *Pharmacology* (2010), 85(6), 365-371.

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