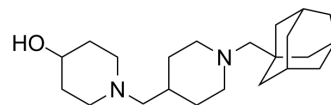


SQ609

Cat. No.:	HY-139424		
CAS No.:	627052-25-9		
Molecular Formula:	C ₂₂ H ₃₈ N ₂ O		
Molecular Weight:	346.55		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 6.67 mg/mL (19.25 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8856 mL	14.4279 mL	28.8559 mL
		5 mM	0.5771 mL	2.8856 mL	5.7712 mL
10 mM		0.2886 mL	1.4428 mL	2.8856 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.67 mg/mL (1.93 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.67 mg/mL (1.93 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	SQ609 is a lead compound from a library of dipiperidines. SQ609 inhibits more than 90% of intracellular bacterial growth at 4µg/ml and is toxic to these cells. SQ609 displays a potent antitubercular activity ^[1] .
In Vitro	In Mtb-infected macrophages in vitro, SQ609 inhibits more than 90% of intracellular bacterial growth at 4µg/ml and is toxic to these cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SQ609 (10 mg/kg; intravenous injection) completely prevents weight loss in the Mtb-infected animals and prolongs the therapeutic effect following drug withdrawal for another 10-15 days ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	TB susceptible mice (C3H/He) ^[1]
Dosage:	10 mg/kg
Administration:	I.v.
Result:	Prevented weight loss in the Mtb-infected animals and prolonged the therapeutic effect following drug withdrawal for another 10-15 days.

REFERENCES

[1]. Bogatcheva E, et al. Identification of SQ609 as a lead compound from a library of dipiperidines. Bioorg Med Chem Lett. 2011;21(18):5353-5357.

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

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