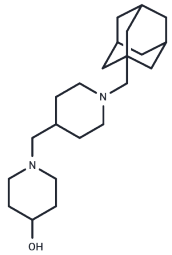
Data Sheet (Cat.No.T38345)

TargetMol

SQ609

Chemical Properties



CAS No. : 627052-25-9

Formula: C22H38N2O

Molecular Weight: 346.55

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	SQ609 is a potential anti-tuberculosis drug selected from a library of dipiperidine derivatives. SQ609 showed significant anti-tuberculous activity in mouse macrophages in vitro[1].
Targets(IC50)	Antibacterial
In vitro	In vitro studies show that SQ609 effectively inhibits over 90% of intracellular bacterial growth in Mtb-infected macrophages at a concentration of 4μg/ml while also exhibiting toxicity to these cells[1].
In vivo	SQ609 (10 mg/kg; administered orally by gavage) completely prevents weight loss in the Mtb-infected animals and prolongs the therapeutic effect following drug withdrawal for another 10-15 days[1].

Solubility Information

Solubility	DMSO: 1 mg/mL (2.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0577 mL	0.2886 mL	0.5771 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

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.

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