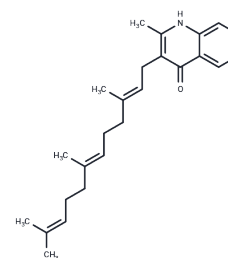


Aurachin D

Chemical Properties

CAS No. :	108354-13-8
Formula:	C ₂₅ H ₃₃ NO
Molecular Weight:	363.54
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Aurachin D, a cytotoxic quinolone targeting Mycobacterium tuberculosis (Mtb) cytochrome bd (cyt-bd) oxidase, acts as an antibiotic against malaria, Plasmodium spp, T. cruzi and Leishmania donovani, can be used to study visceral leishmaniasis.
Targets(IC50)	Antibacterial, Antibiotic, Antifungal

Solubility Information

Solubility	DMSO: 40 mg/mL (110.03 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (11 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	2.7507 mL	13.7536 mL	27.5073 mL
5 mM	0.5501 mL	2.7507 mL	5.5015 mL
10 mM	0.2751 mL	1.3754 mL	2.7507 mL
50 mM	0.055 mL	0.2751 mL	0.5501 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

Radloff M, et al. Short-chain aurachin D derivatives are selective inhibitors of E. coli cytochrome bd-I and bd-II oxidases. Sci Rep. 2021 Dec 13;11(1):23852.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481