

RP 70676

Chemical Properties

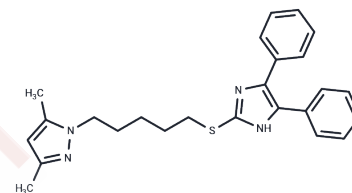
CAS No. : 136609-26-2

Formula: C₂₅H₂₈N₄S

Molecular Weight: 416.58

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	RP 70676 is a potent ACAT inhibitor (rat and rabbit ACAT with IC ₅₀ of 25 and 44 nM).
Targets (IC ₅₀)	Acyltransferase
In vitro	RP 70676 is a potent rabbit arterial ACAT inhibitor with IC ₅₀ of 40 nM and has been shown to be an effective inhibitor of ACAT derived from a number of tissues and species including man. The IC ₅₀ values range from 21 nM for hamster liver ACAT to 108 nM for enzyme from the intestine of cholesterol fed rabbits; in human hepatic tissues (IC ₅₀ : 44 nM). Murine macrophages the compound has an IC ₅₀ of 540 nM in whole cell P388D.
In vivo	In NZW rabbits, RP 70676 (10 mg/kg, p.o.) is well absorbed with plasma levels.

Solubility Information

Solubility	DMSO: 125 mg/mL (300.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.6 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	2.4005 mL	12.0025 mL	24.005 mL
5 mM	0.4801 mL	2.4005 mL	4.801 mL
10 mM	0.240 mL	1.2002 mL	2.4005 mL
50 mM	0.048 mL	0.240 mL	0.4801 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

M.J. Ashton, et al. RP 70676: A potent systematically available inhibitor of acyl-CoA:cholesterol O-acyl transferase (ACAT). Bioorganic & Medicinal Chemistry Letters Volume 2, Issue 5, 1992, Pages 375-380.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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