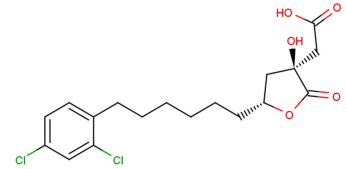


Data Sheet (Cat.No.T16861)

SB 204990

Chemical Properties

CAS No.:	154566-12-8
Formula:	C ₁₈ H ₂₂ Cl ₂ O ₅
Molecular Weight:	389.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	SB 204990 is an effective and specific ATP citrate lyase enzyme inhibitor.
Targets(IC ₅₀)	ACLY: None
In vitro	SB204990 treatment leads to a reduction in cytosolic Ac-CoA level and is thus expected to decrease acetylated and active β -catenin levels [1].
In vivo	SB 204990 is absorbed into the systemic circulation when administered orally to rats. SB 204990 causes a dose-related decrease in plasma cholesterol (by up to 46%) and triglyceride levels (by up to 80%) in rats when administered in the diet (0.05-0.25%, w/w) for 1 week. SB 204990 (25 mg/kg per day) also decreases plasma cholesterol levels (by up to 23%) and triglyceride levels (by up to 38%) in the dog, preferentially decreasing low-density lipoprotein compared with high-density lipoprotein cholesterol levels [2].

Solubility Information

Solubility	DMSO: 250 mg/mL (642.23 mM) H ₂ O: 10 mg/mL (25.69 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.569 mL	12.845 mL	25.689 mL
5 mM	0.514 mL	2.569 mL	5.138 mL
10 mM	0.257 mL	1.284 mL	2.569 mL
50 mM	0.051 mL	0.257 mL	0.514 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Shares BH, et al. Active mitochondria support osteogenic differentiation by stimulating β -catenin acetylation. J Biol Chem. 2018 Oct 12;293(41):16019-16027.
2. Pearce NJ, et al. The role of ATP citrate-lyase in the metabolic regulation of plasma lipids. Hypolipidaemic effects of SB-204990, a lactone prodrug of the potent ATP citrate-lyase inhibitor SB-201076. Biochem J. 1998 Aug 15;334 (Pt 1):113-9.

Inhibitors · Natural Compounds · Compound Libraries

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