

**Product Name:** SB 204990

**Catalog No.:** 4962

**Batch No.:** 1

**CAS Number:** 154566-12-8

**IUPAC Name:** (3*R*,5*S*)-rel-5-[6-(2,4-Dichlorophenyl)hexyl]tetrahydro-3-hydroxy-2-oxo-3-furanacetic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>22</sub>Cl<sub>2</sub>O<sub>5</sub>·¼H<sub>2</sub>O

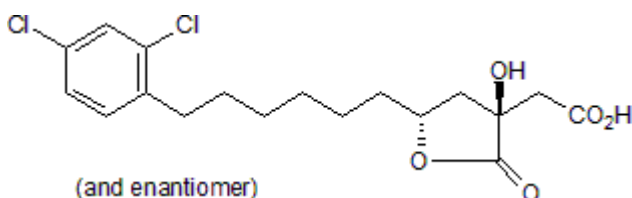
**Batch Molecular Weight:** 393.77

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.42 (Chloroform:Methanol [9:1])

**HPLC:** Shows >98.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.9	5.76	
Found	55.04	5.7	0.05

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**Description:**

ATP-citrate lyase (ACL) inhibitor. Prodrug of SB 201076. Inhibits cholesterol and fatty acid synthesis in a dose-dependent manner in HepG2 cells. Orally active *in vivo*.

**Physical and Chemical Properties:**

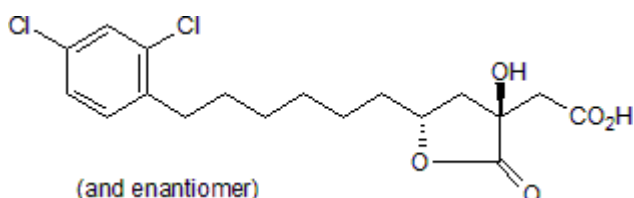
Batch Molecular Formula: C<sub>18</sub>H<sub>22</sub>Cl<sub>2</sub>O<sub>5</sub> · ¼H<sub>2</sub>O

Batch Molecular Weight: 393.77

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Pearce et al** (1998) 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.* **334** 113. PMID: 9693110.

**Gribble et al** (1998) ATP-Citrate lyase as a target for hypolipidemic intervention. 2. Synthesis and evaluation of (3*R*\*,5*S*\*)-ω-substituted-3-carboxy-3, 5-dihydroxyalkanoic acids and their gamma-lactone prodrugs as inhibitors of the enzyme *in vitro* and *in vivo*. *J.Med.Chem.* **41** 3582. PMID: 9733484.

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