

Product Name: Avasimibe

Catalog No.: 6505

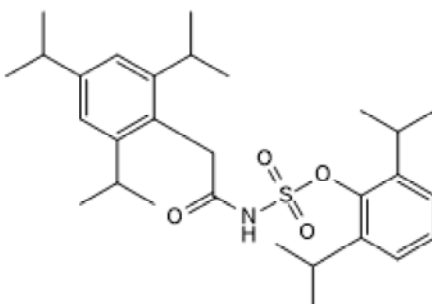
Batch No.: 1

CAS Number: 166518-60-1

IUPAC Name: 2,6-Diisopropylphenyl (2-(2,4,6-triisopropylphenyl)acetyl)sulfamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₄₃NO₄S
Batch Molecular Weight: 501.72
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.42	8.64	2.79
Found	69.46	8.82	2.92

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

ACAT inhibitor ($IC_{50} = 3.3 \mu M$). Inhibits cholesterol esterification and reduces plasma cholesterol levels in rats. Also inhibits tumor growth and prolongs survival time in a melanoma mouse model and reduces tumor growth and metastasis in a pancreatic cancer mouse model.

Physical and Chemical Properties:

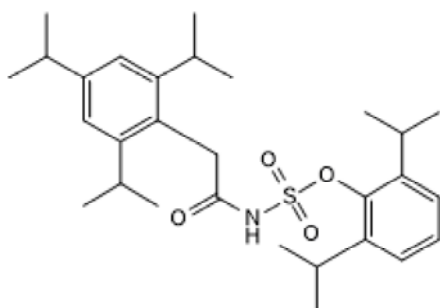
Batch Molecular Formula: $C_{29}H_{43}NO_4S$

Batch Molecular Weight: 501.72

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Li *et al* (2016) Abrogating cholesterol esterification suppresses growth and metastasis of pancreatic cancer. *Oncogene* **35** 6378. PMID: 27132508.

Yang *et al* (2016) Potentiating the antitumour response of CD8(+) T cells by modulating cholesterol metabolism. *Nature* **531** 651. PMID: 26982734.

Lee *et al* (1996) Inhibitors of acyl-CoA: cholesterol O-acyl transferase (ACAT) as hypocholesterolemic agents. CI-1011: an acyl sulfamate with unique cholesterol-lowering activity in animals fed noncholesterol-supplemented diets. *J.Med.Chem.* **39** 5031. PMID: 8978833.

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