



Certificate of Analysis

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Product Name: CI 976 Catalog No.: 2227 Batch No.: 1

CAS Number: 114289-47-3

IUPAC Name: 2,2-Dimethyl-*N*-(2,4,6-trimethoxyphenyl)dodecanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{39}NO_4$ Batch Molecular Weight:393.57Physical Appearance:White solid

Solubility: ethanol to 50 mM DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.2$ (Ethyl acetate:Petroleum ether [3:7])

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 70.19 9.99 3.56 Found 70.11 9.88 3.49



Product Information

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Description:

Selective acyl-coenzyme A:cholesterol acyltransferase (ACAT) inhibitor (IC $_{50}$ = 0.073 μM). Lowers non-high density lipoprotein (HDL)-cholesterol and increases HDL-cholesterol concentrations in rats with pre-established dyslipidemia. Orally active. Also inhibits Golgi-associated LPL acyltransferase (LPAT) activity (IC $_{50}$ = 15 μM).

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₃₉NO₄ Batch Molecular Weight: 393.57 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 50 mM DMSO 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:

Drecktrah et al (2003) Inhibition of a Golgi complex lysophospholipid acyltransferase induces membrane tubule formation and retrograde trafficking. Mol.Biol.Cell **14** 3549.

Krause et al (1993) In vivo evidence that the lipid-regulating activity of ACAT inhibitor CI-976 in rats is due to inhibition of both intestinal and liver ACAT. J.Lipid Res. **34** 279. PMID: 8429262.

Sliskovic and White (1991) Therapeutic potential of ACAT inhibitors as lipid lowering and anti-atherosclerotic agents. TiPS. 12 194.

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