

Certificate of Analysis

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Product Name: A 922500

Catalog No.: 3587

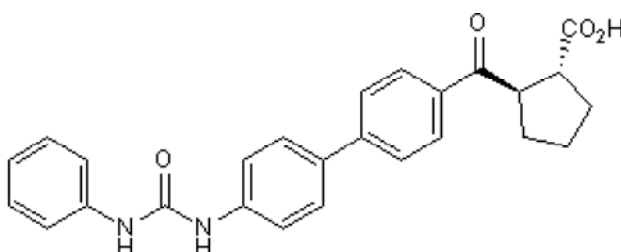
Batch No.: 2

CAS Number: 959122-11-3

IUPAC Name: (1*R*,2*R*)-2-[[4'-[[[Phenylamino)carbonyl]amino] [1,1'-biphenyl]-4-yl]carbonyl]cyclopentanecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₂₄ N ₂ O ₄
Batch Molecular Weight:	428.48
Physical Appearance:	Pale yellow solid
Solubility:	DMSO to 50 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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IUPAC Name: (1R,2R)-2-[[4'-[[[Phenylamino)carbonyl]amino] [1,1'-biphenyl]-4-yl]carbonyl]cyclopentanecarboxylic acid

Description:

A 922500 is a diacylglycerol acyltransferase 1 (DGAT-1) inhibitor (IC₅₀ values are 7 and 24 nM at human and mouse DGAT-1 respectively) that is devoid of activity at DGAT-2, ACAT1 or ACAT2. Induces significant weight loss without altering food intake, and decreases liver and plasma triglyceride levels in vivo. Orally active.

Physical and Chemical Properties:

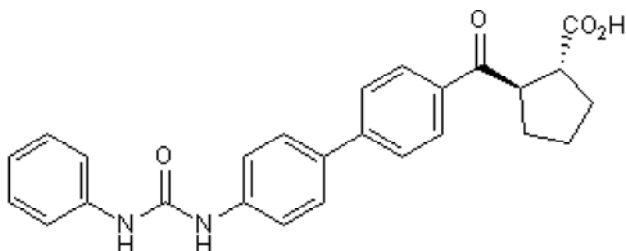
Batch Molecular Formula: C₂₅H₂₄N₂O₄

Batch Molecular Weight: 428.48

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

King et al (2010) In vivo efficacy of acyl CoA: diacylglycerol acyltransferase (DGAT) 1 inhibition in rodent models of postprandial hyperlipidemia. *Eur.J.Pharmacol.* **637** 155. PMID: 20385122.

King et al (2009) Diacylglycerol acyltransferase 1 inhibition lowers serum triglycerides in the Zucker fatty rat and the hyperlipidemic hamster. *J.Pharmacol.Exp.Ther.* **330** 526. PMID: 19478132.

Zhao et al (2008) Validation of diacyl glycerolacyltransferase I as a novel target of obesity and dyslipidemia using a potent and selective small molecule inhibitor. *J.Med.Chem.* **51** 380. PMID: 18183944.

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