

Certificate of Analysis

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Product Name: SR 202

Catalog No.: 2022

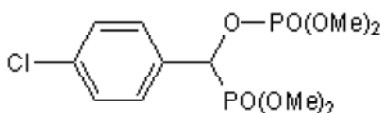
Batch No.: 1

CAS Number: 76541-72-5

IUPAC Name: (4-Chlorophenyl)(dimethoxyphosphinyl)methyl phosphoric acid dimethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₇ClO₇P₂
Batch Molecular Weight: 358.65
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Dichloromethane:Methanol [95:5])
HPLC: Shows >99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	36.84	4.78	
Found	36.84	4.82	

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

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IUPAC Name: (4-Chlorophenyl)(dimethoxyphosphinyl)methyl phosphoric acid dimethyl ester

Description:

Selective PPAR γ antagonist; antidiabetic and antiobesity agent. Attenuates troglitazone-induced PPAR γ transcriptional activity (IC₅₀ = 140 μ M) without affecting ligand-stimulated PPAR α , PPAR β or FXR transcriptional activity. Inhibits PPAR γ -dependent adipocyte differentiation and growth in vitro and in vivo. Improves insulin sensitivity in diabetic ob/ob mice and increases HDL levels in rats in vivo.

Physical and Chemical Properties:

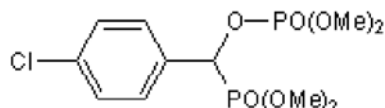
Batch Molecular Formula: C₁₁H₁₇ClO₇P₂

Batch Molecular Weight: 358.65

Physical Appearance: White solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water 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:

Doggrell (2003) Do peroxisome proliferation receptor- γ antagonists have clinical potential as combined antiobesity and antidiabetic drugs? *Expert.Opin.Invest.Drugs* **12** 713.

Rieusset et al (2002) A new selective peroxisome proliferator-activated receptor γ antagonist with antiobesity and antidiabetic activity. *Mol.Endocrinol.* **16** 2628. PMID: 12403851.

Nguyen et al (1987) *gem*-Diphosphonate and *gem*-phosphonate-phosphate compounds with specific high density lipoprotein inducing activity. *J.Med.Chem.* **30** 1426. PMID: 3612689.

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