

Product Name: Tesaglitazar

Catalog No.: 3965

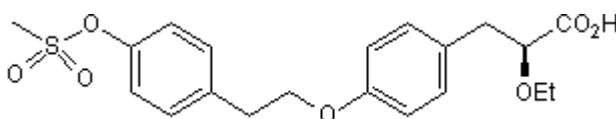
Batch No.: 1

CAS Number: 251565-85-2

IUPAC Name: (S)-2-Ethoxy-3-[4-[2-(4-methanesulfonyloxyphenyl)ethoxy]phenyl]propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₄O₇S
Batch Molecular Weight: 408.47
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.22 (Ethyl acetate:Petroleum ether:Acetic acid [1:1:0.2])
HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -21.8 (Concentration = 0.98, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.81	5.92	
Found	58.77	5.98	

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

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Description:

Dual-specificity PPAR α / γ agonist (IC₅₀ values are 0.35 and 3.8 μ M for PPAR γ and PPAR α respectively). Prevents atherosclerosis progression in E3L.CETP transgenic mice. Also reduces insulin resistance in obese Zucker rats. Orally active.

Physical and Chemical Properties:

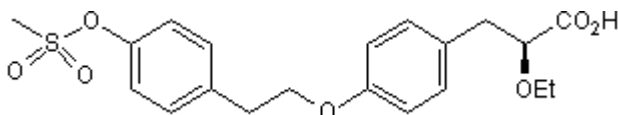
Batch Molecular Formula: C₂₀H₂₄O₇S

Batch Molecular Weight: 408.47

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Cronet et al (2001) Structure of the PPAR β and - γ ligand binding domain in complex with AZ 242; ligand selectivity and agonist activation in the PPAR family. *Structure* **9** 699. PMID: 11587644.

Ljung et al (2002) AZ 242, a novel PPAR α / γ agonist with beneficial effects on insulin resistance and carbohydrate and lipid metabolism in ob/ob mice and obese Zucker rats. *J.Lipid Res.* **43** 1855. PMID: 12401884.

Ebdrup et al (2003) Synthesis and biological and structural characterization of the dual-acting peroxisome proliferator-activated receptor α / γ agonist ragaglitazar. *J.Med.Chem.* **46** 1306. PMID: 12672231.

van der Hoorn et al (2009) The dual PPAR α / γ agonist tesaglitazar blocks progression of pre-existing atherosclerosis in *APOE*3Leiden.CETP* transgenic mice. *Br.J.Pharmacol.* **156** 1067. PMID: 19220285.

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