

Product Name: Troglitazone

Catalog No.: 3114

Batch No.: 4

CAS Number: 97322-87-7

IUPAC Name: 5-[[4-[(3,4-Dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methoxy]phenyl]methyl]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₇NO₅S.1/4H₂O

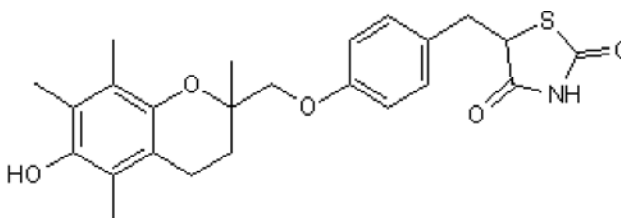
Batch Molecular Weight: 446.04

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	64.63	6.21	3.14
Found	64.33	6.24	3.14

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

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Description:

Troglitazone is a selective PPAR γ receptor agonist (EC₅₀ values are 780 and 555 nM at murine and human PPAR γ receptors respectively). Displays no activity at PPAR α or PPAR δ receptors. Antidiabetic agent; exerts potent glucose-lowering effects in insulin-resistant diabetic mice. Displays anti-invasive effect on human breast cancer cells; reduces migration, adhesion and spreading on fibronectin-coated plates. Also inhibits cell growth of hematopoietic cell lines. Inhibits lamellipodia formation and actin polymerization.

Physical and Chemical Properties:

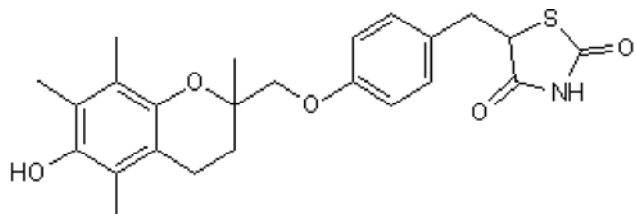
Batch Molecular Formula: C₂₄H₂₇NO₅S.½H₂O

Batch Molecular Weight: 446.04

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Kodera et al (2000) Ligand type-specific interactions of peroxisome-proliferator-activated receptor γ with transcriptional coactivators. *J.Biol.Chem.* **275** 33201. PMID: 10944516.

Willson et al (2000) The PPARs: from orphan receptors to drug discovery. *J.Med.Chem.* **43** 527. PMID: 10691680.

Fujimura et al (1998) Effects of troglitazone on the growth and differentiation of hematopoietic cell lines. *Int.J.Oncol.* **13** 1263. PMID: 9824642.

Storage: Store at -20°C

Solubility & Usage Info:

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.

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