

**Product Name:** Troglitazone

**Catalog No.:** 3114

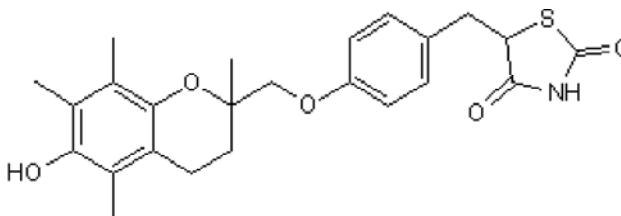
**Batch No.:** 5

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:** C<sub>24</sub>H<sub>27</sub>NO<sub>5</sub>S  
**Batch Molecular Weight:** 441.54  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	65.28	6.16	3.17
Found	65.26	6.29	3.2

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

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**Description:**

Troglitazone is a selective PPAR $\gamma$  receptor agonist (EC<sub>50</sub> values are 780 and 555 nM at murine and human PPAR $\gamma$  receptors respectively). Displays no activity at PPAR $\alpha$  or PPAR $\delta$  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:**

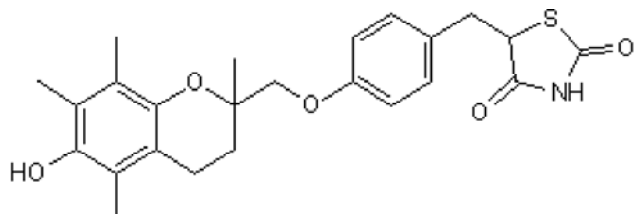
Batch Molecular Formula: C<sub>24</sub>H<sub>27</sub>NO<sub>5</sub>S

Batch Molecular Weight: 441.54

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**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.

**References:**

**Kodera et al** (2000) Ligand type-specific interactions of peroxisome-proliferator-activated receptor  $\gamma$  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.

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