Product Name: Troglitazone
Catalog No.: 3114
Batch No.: 6
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_{24}H_{27}NO_{5}S.
   Batch Molecular Weight: 441.54
   Physical Appearance: White solid
   Solubility: DMSO to 100 mM
   Storage: Store at -20°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.0% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis: Carbon Hydrogen Nitrogen
   Theoretical 65.29 6.16 3.17
   Found 65.03 6.04 3.08

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Description:**
Troglitazone is a selective PPARγ receptor agonist (EC50 values are 780 and 555 nM at murine and human PPARγ receptors respectively). Displays no activity at PPARα or PPARδ 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:** C26H27NO5S.  
- **Batch Molecular Weight:** 441.54  
- **Physical Appearance:** White solid  
- **Minimum Purity:** ≥98%

**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:**