

Certificate of Analysis

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Product Name: Ciglitazone

Catalog No.: 1307

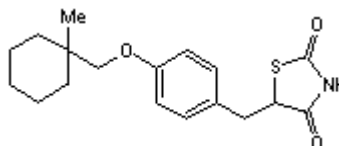
Batch No.: 1

CAS Number: 74772-77-3

IUPAC Name: 5-[[4-[(1-Methylcyclohexyl)methoxy]phenyl]methyl]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₃NO₃S
Batch Molecular Weight: 333.44
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [3:7])
Melting Point: Between 126 - 128°C
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	64.84	6.95	4.2	0 0 0
Found	64.53	6.93	4.16	0 0 0

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

Product Information

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Description:

Selective agonist at PPAR γ (peroxisome proliferator-activated receptor γ). Activates PPAR γ with an EC₅₀ value of 3 μ M in vitro, and is at least 33-fold selective over PPAR α and δ . Antihyperglycemic in vivo.

Physical and Chemical Properties:

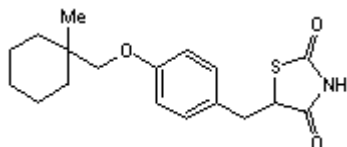
Batch Molecular Formula: C₁₈H₂₃NO₃S

Batch Molecular Weight: 333.44

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

1eq. NaOH 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:

Willson et al (1996) The structure-activity relationship between peroxisome proliferator receptor γ agonism and the antihyperglycemic activity of thiazolidinediones. *J. Med. Chem.* **39** 665. PMID: 8576907.

Xin et al (1999) Peroxisome proliferator-activated receptor γ ligands are potent inhibitors of angiogenesis *in vitro* and *in vivo*. *J. Biol. Chem.* **274** 9116. PMID: 10085162.

Jh (1999) Thiazolidinediones - the new insulin enhancers. *Clin. Exp. Hypertens.* **21** 157. PMID: 10052651.

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