

Certificate of Analysis

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Product Name: Rosiglitazone

Catalog No.: 5325

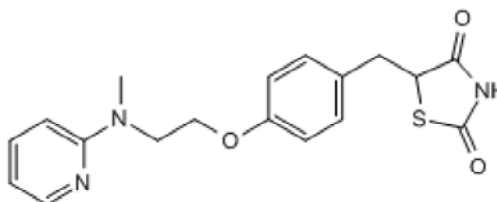
Batch No.: 1

CAS Number: 122320-73-4

IUPAC Name: 5-[[4-[2-(Methyl-2-pyridinylamino)ethoxy]phenyl]methyl]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₉N₃O₃S
Batch Molecular Weight: 357.43
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 1eq. HCl to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 60.49 | 5.36 | 11.76 |
| Found | 60.67 | 5.36 | 11.76 |

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

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Description:

Potent and selective PPAR γ agonist (EC₅₀ = 60 nM); exhibits no activity at PPAR α and PPAR β . Promotes differentiation of pluripotent C3H10T1/2 stem cells into adipocytes. Also promotes differentiation of urothelial organoids in combination with erlotinib. Exhibits antihyperglycemic activity in diabetic ob/ob mouse model. Antidiabetic agent.

Physical and Chemical Properties:

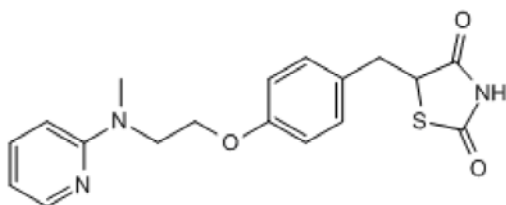
Batch Molecular Formula: C₁₈H₁₉N₃O₃S

Batch Molecular Weight: 357.43

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl 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:

Santos *et al* (2019) Urothelial organoids originating from Cd49^{high} mouse stem cells display Notch-dependent differentiation capacity. *Nat. Commun.* **10** 4407. PMID: 31562298.

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

Lehmann *et al* (1995) An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor gamma (PPAR gamma). *J. Biol. Chem.* **270** 12953. PMID: 7768881.

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