

**Product Name:** Rosiglitazone

**Catalog No.:** 5325

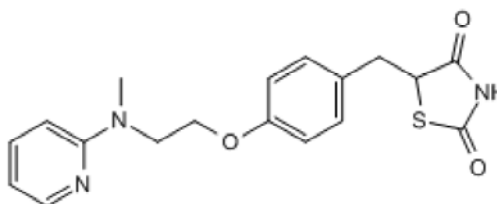
**Batch No.:** 2

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:** C<sub>18</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>S.  
**Batch Molecular Weight:** 357.43  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.49	5.36	11.76
Found	60.65	5.35	11.76

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

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**Description:**

Rosiglitazone is a potent and selective PPAR $\gamma$  agonist (EC<sub>50</sub> = 60 nM); exhibits no activity at PPAR $\alpha$  and PPAR $\beta$ . Promotes differentiation of pluripotent C3H10T1/2 stem cells into adipocytes. Also promotes differentiation of urothelial organoids in combination with Erlotinib (Cat. No. 7194). Exhibits antihyperglycemic activity in diabetic ob/ob mouse model. Antidiabetic agent.

**Physical and Chemical Properties:**

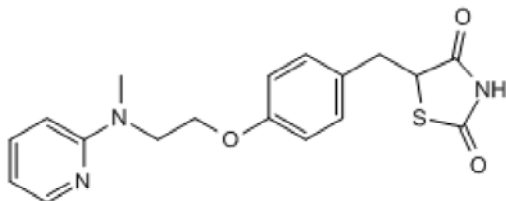
Batch Molecular Formula: C<sub>18</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>S.

Batch Molecular Weight: 357.43

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°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:**

**Santos *et al*** (2019) Urothelial organoids originating from Cd49<sup>high</sup> 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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