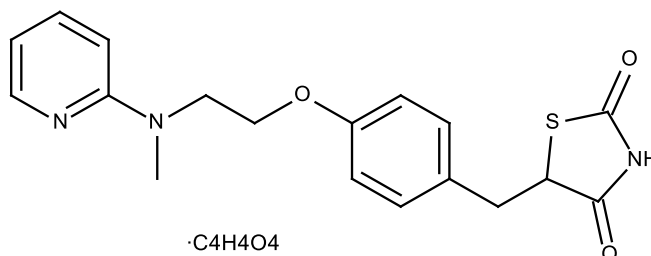


**Catalog # 10-1012**  
**Rosiglitazone Maleate**

CAS# 155141-29-0

5-[[4-[2-(Methyl-2-pyridinylamino)ethoxy]phenyl]methyl]-2,4-thiazolidinedione maleate; Avandia; BRL49653

Lot # X104131



Prototypical TZD antidiabetic agent. Potent and selective PPAR $\gamma$  agonist ( $K_d=43$  nM).<sup>1,2</sup> Clinically useful antihyperglycemic agent.<sup>3</sup> Induces a brown fat gene program in subcutaneous white adipose tissue via activation of the PRDM16 protein.<sup>4</sup> Induces differentiation of pluripotent stem cells into adipocytes.<sup>5</sup>

- 1) Cantello *et al.* (1994), *[[omega-(Heterocyclamino)alkoxy]benzyl]-2,4-thiazolidinediones as potent antihyperglycemic agents*; J. Med. Chem., **37** 3977
- 2) Lehmann *et al.* (1995) *An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor gamma (PPARgamma)*; J.Biol.Chem., **270** 12953
- 3) Wilson *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
- 4) Haruya *et al.* (2012), *PPARgamma agonists induce a white-to-brown fat conversion through stabilization of PRDM16 protein*; Cell Metab., **15** 395
- 5) Ruiz-Ojeda *et al.* (2016), *Cell Models and their Application for Studying Adipogenic Differentiation in Relation to Obesity: A Review*; Int. J. Mol. Sci., **17** E1040

**PHYSICAL DATA**

Molecular Weight:	473.52
Molecular Formula:	C <sub>18</sub> H <sub>19</sub> N <sub>3</sub> O <sub>3</sub> S·C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**