

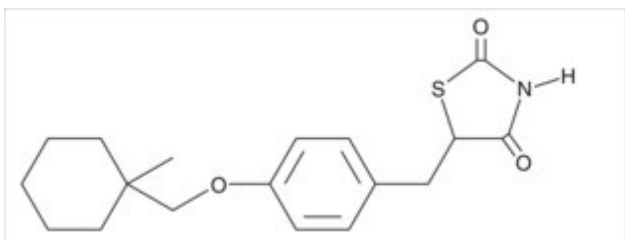
Cat No. 48-A90

Ciglitazone

5mg

Ciglitazone is an antihyperglycemic agent of the thiazolidinedione structural class, selective agonist at PPAR γ (peroxisome proliferator-activated receptor γ). It 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. Ciglitazone inhibits HUVEC differentiation and angiogenesis and also stimulates adipogenesis and decreases osteoblastogenesis in human mesenchymal stem cells.

TECHNICAL INFORMATION



Other Names: 5-[[4-[(1-methylcyclohexyl)methoxy]phenyl]methyl]-2,4-thiazolidinedione

Chemical Formula: C₁₈H₂₃NO₃S

CAS Number: 74772-77-3

PubChem Substance ID: 2750

Molecular Weight: 333.50

Purity: >98%

Appearance: Crystalline Solid

Solubility: DMSO

IC₅₀: 3 μ M



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in \geq 25mg/mL of DMSO.

REFERENCES

1. Lee, M.W., et al (2012). Cell death is induced by Ciglitazone, a peroxisome proliferator-activated receptor γ (PPAR γ) agonist, independently of PPAR γ in human glioma cells. *Biochem Biophys Res Commun.* 417:552-7.
2. Yokoyama, Y., et al (2011). Combination of Ciglitazone, a peroxisome proliferator-activated receptor gamma ligand, and cisplatin enhances the inhibition of growth of human ovarian cancer. *J Cancer Res Clin Oncol.* 137:1219-28.
3. Lai, L.j., et al (2011). Pigment epithelial-derived factor inhibits c-FLIP expression and assists Ciglitazone-induced apoptosis in hepatocellular carcinoma. *Anti-cancer Res.* 31:1173-80.