

Cat No. 05-E10

## Troglitazone



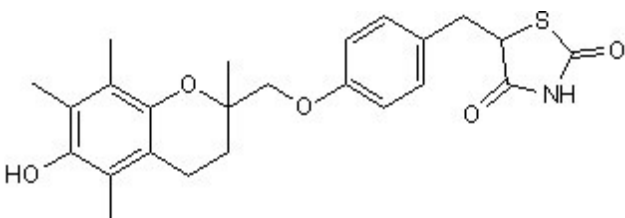
5mg

For research purposes only

Troglitazone is a potent antiproliferative and apoptosis inducer and is a selective PPAR $\gamma$  agonist. There was no activation of PPAR $\alpha$  and PPAR $\delta$  observed at concentrations up to 10  $\mu$ M. Troglitazone binds to the PPAR $\gamma$  ligand-binding domain (LBD) but fails to induce interaction of the PPAR $\gamma$  LBD with the transcriptional coactivators SRC-1, TIF2, AIB1, p300, or TRAP220. PPAR $\gamma$  is mainly expressed in adipose tissue, one of the target tissues for insulin, but has subsequently been found to be expressed in vascular smooth muscle cells, endothelial cells, macrophages, and some cancer cells. Troglitazone also induces cell cycle arrest and apoptosis in several cancer cell lines with an EC<sub>50</sub> of 10  $\mu$ M

### TECHNICAL INFORMATION

### 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.

**Other Names:** 5-[[4-[(3,4-dihydro-6-hydroxy-2, 5, 7, 8-tetramethyl-2H-1-benzopyran-2-yl)methoxy]phenyl]methyl]-2,4-thiazolidinedione

**Chemical Formula:** C<sub>24</sub>H<sub>27</sub>NO<sub>5</sub>S

**CAS Number:** 97322-87-7

**PubChem Substance ID:** 5591

**Molecular Weight:** 441.5

**Purity:** >98%

**Appearance:** Yellow Solid

**Solubility:** DMSO

**IC<sub>50</sub> :** 10  $\mu$ m

### REFERENCES

1. An. Z. et al (2012). Effect of troglitazone on radiation sensitivity in cervix cancer cells. Radiation oncol j. 30:78-87.
2. Kakuni, M., et al (2012). Chimeric mice with a humanized liver as an animal model of troglitazone-induced liver injury. Toxicol let. 214:9-18.
3. Zhou, B., et al (2012). Troglitazone attenuates TGF- $\beta$ 1-induced EMT in alveolar epithelial cells via a PPAR $\gamma$ -independent mechanism. PLoS one. 7:e38827.