

Catalog No. 11216-010 5 mg

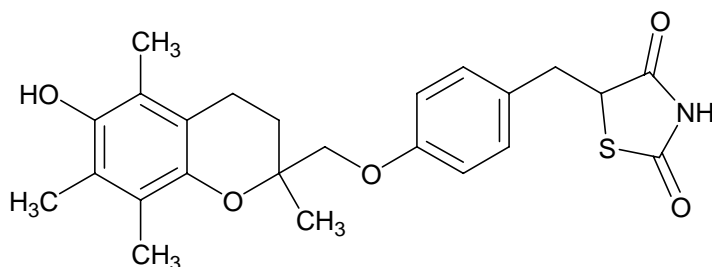
PRODUCT: Troglitazone
(±)-5-[4-[(6-Hydroxy-2,5,7,8-tetramethylchroman-2-yl)methoxy]-benzyl]-2,4-thiazolidinedione

CAS NO. 97322-87-7

CATALOG NO.: 11216-010

SIZE: 5 mg

STRUCTURE:



PHYSICAL APPEARANCE: Yellow solid

MOLECULAR FORMULA: $C_{24}H_{27}NO_5S$

MOLECULAR WEIGHT: 441.5

PURITY: 98%(TLC: 5% MeOH/methylene chloride; $R_f = 0.42$)

SOLUBILITY: Soluble in ethanol (>25 mg/ml) and DMSO (>25 mg/ml)

STORAGE: Store, as supplied, at room temperature for up to 1 year. Store solutions at -20°C for up to 1 month.

APPLICATION NOTES: An antidiabetic thiazolidinedione (TZD) that decreases blood glucose in type II diabetes¹. Also displays antiinflammatory and antitumor activity¹. Stimulates glucose transport in adipocytes ($EC_{50}=1\mu M$)². PPAR γ agonist. Unlike other TZDs, troglitazone induces apoptosis in cultured vascular smooth muscle cells via a p53 pathway (48 hr. treatment 5-30 μM)³. Inhibits the growth of a variety of human cancer cells (and in some cases induces apoptosis) including lung,⁴ bladder⁵ and myeloid leukemia cells⁶. The product is not sterile.

References:

1. T. Fujiwara *et al. Life Sci.* 2000 **67** 2405
2. P.W. Young *et al. J. Pharmacol. Exp. Therap.* 1998 **284** 751
3. T. Okura *et al. Eur. J. Pharmacol.* 2000 **407** 227
4. Y. Tsubouchi *et al. Biochem. Biophys. Res. Commun.* 2000 **270** 400
5. Y.F. Guan *et al. Neoplasia* 1999 **1** 330
6. H. Asou *et al. Int. J. Oncol.* 1999 **15** 1027

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.