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Product Information

Product ID T7056

CAS No. 97322-87-7

Chemical Name 5-[[4-[(3,4-Dihydro-6-hydroxy-2,5,7,8-tetramethyl- 2H-1-benzopyran -2-yl)methoxy]phenyl]methyl]-2,4- thiazolidinedione

Svnonvm Noscal, Prelay, Rezulin, Romozin

Formula C24H27NO5S

Formula Wt. 441.54

Melting Point 184-186°C

Purity ≥97%

Solubility Soluble in DMSO 15mg/mL, and dimethyl formide. Slightly soluble in 100% ethanol (warm).

Store Temp Ambient

Ship Temp Ambient Description Troglitazone is a thiazolidinedione PPARy agonist that exhibits anti-diabetic, anticancer, anti-fibrotic, and anti-inflammatory activities. Troglitazone contains a vitamin E-like ring structure that forms hepatotoxic metabolites in vivo. Troglitazone induces apoptosis in cervical cancer cells and decreases expression and activity of telomerase in ER- breast cancer cells. In vitro, troglitazone activates AMPK, decreases membrane potential, inhibits high glucose-closed ATP-sensitive K+ channels, and decreases insulin hypersecretion. In alveolar epithelial cells, troglitazone inhibits TGF-B1-induced activation of Akt, GSK-3B and Smad2/3, decreases B-catenin signaling, and suppresses epithelial-to-mesenchymal transition (EMT). Additionally, this compound inhibits PAM-induced increases in TGF-B1 and increases MUC1 expression in airway epithelial cells.

References Chen HM, Zhang DG, Wu JX, et al. Ubiquitination of p53 is involved in troglitazone induced apoptosis in cervical cancer cells. Asian Pac J Cancer Prev. 2014;15(5):2313-8. PMID: 24716976.

> Deng R, Nie A, Jian F, et al. Acute exposure of beta-cells to troglitazone decreases insulin hypersecretion via activating AMPK. Biochim Biophys Acta. 2014 Jan;1840(1):577-85. PMID: 24144566.

Zhou B, Buckley ST, Patel V, et al. Troglitazone attenuates TGF-B1-induced EMT in alveolar epithelial cells via a PPARyindependent mechanism. PLoS One. 2012;7(6):e38827. PMID: 22745681.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.



Bulk quanitites available upon request

Product ID	Size
T7056	10 mg
T7056	50 mg
T7056	100 mg