

Product Data Sheet

Product Name: GW 9578

Cat. No.: GC43800

Chemical Properties

Cas. No. 247923-29-1

SMILES CCCCCCCN(CCC1CCC(CC1)SC(C)(C)C(=O)O)C(=O)Nc1ccc(F)cc1F

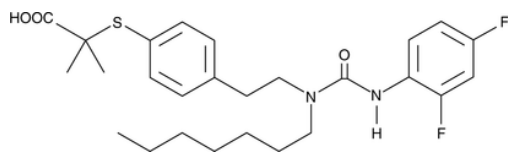
Formula C₂₆H₃₄F₂N₂O₃S M.Wt 492.6

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:2): 0.3 mg/ml, Ethanol: 2.5 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Peroxisome proliferator-activated receptor α (PPAR α) is a ligand-activated transcription factor found predominantly in the liver that is involved in the regulation of lipid homeostasis. Activation of PPAR α results in expression of a variety of genes, particularly those involved in fatty acid β -oxidation, binding, and transport. GW 9578 is a potent agonist of PPAR α that activates the murine and human receptors with EC₅₀ values of 0.005 and 0.05 μ M, respectively. GW 9578 is highly selective for PPAR α compared to PPAR γ and PPAR δ , which it activates in murine at EC₅₀ values of 0.15 and 2.6 μ M, respectively and in human at 1.0 and 1.4 μ M, respectively. GW 9578 is a potent lipid lowering agent that may reduce insulin resistance. When 0.2 mg/kg GW 9578 was given orally once daily for three days, serum total LDL cholesterol was decreased 40-60% in male Sprague-Dawley rats. Obese Zucker rats treated with 5 mg/kg GW 9578 for nine days had markedly reduced serum insulin concentrations compared to controls.

Caution: Product has not been fully validated for medical applications. For research use only.

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