

Catalog Number: CM00288

产品信息

Catalog Number:
CM00288

CAS号:
278779-30-9

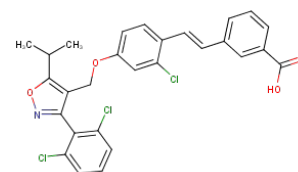
分子式:
C₂₈H₂₂Cl₃NO₄

主要靶点:
FXR|Autophagy

主要通路:
代谢|自噬

分子量:
542.84

溶解度:
DMSO:54.3 mg/mL (100
mM),Ethanol:5.4 mg/mL (10 mM)



靶点活性

FXR:65 nM(EC50)

体外活性

在Fisher大鼠中,口服给药GW 4064 (ED50 = 20 mg/kg),能够降低大鼠血清中的甘油三酯。

体内活性

在小鼠FXR表达载体转染的CV-1细胞中 (EC50=80 nM),在人FXR表达载体转染的CV-1细胞中 (EC50=90 nM),GW 4064作为选择性非甾体FXR激动剂,能够发挥激动作用。

细胞实验

GW 4064 is dissolved in DMSO and stored, and then diluted with appropriate media before use[2]. Mouse liver cells (BNL CL.2) are maintained in a humidified incubator under 5% CO₂ at 37°C in Dulbecco's Modified Eagle's Medium (DMEM) supplemented with 10% fetal bovine serum (FBS) and 1% Penicillin/Streptomycin. When cells are divided into six-well plates and reach ~90% confluence, sub-confluent cells are washed three times with phosphate buffered saline (PBS) and replaced with serum-free DMEM supplemented with 1% fatty acid-free BSA. Oleic acid (final concentration 500 μM) and GW4064 at various concentrations are added and incubated for 24 h. Cells are then fixed with 4% formaldehyde for Oil Red O staining or harvested for protein and western blot analysis[2].

描述

GW 4064 is an effective farnesoid X receptor (FXR) agonist (EC50 =65 nM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years