

GW 501516

Catalog No: tcsc0438



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g



Specifications

CAS No:

317318-70-0

Formula:

$C_{21}H_{18}F_3NO_3S_2$

Pathway:

Cell Cycle/DNA Damage;Autophagy

Target:

PPAR;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (220.51 mM); H₂O :

Alternative Names:

GW 1516;GSK-516

Observed Molecular Weight:

453.5

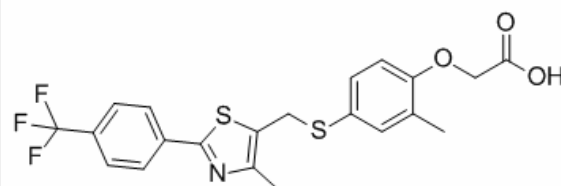
Product Description

GW 501516 is a **PPAR δ** agonist with an **EC₅₀** of 1.1 nM.

IC50 & Target: EC50: 1.1 nM (PPAR δ)^[1]

In Vitro: GW 501516 is shown to be the most potent and selective PPAR α agonists known with an EC₅₀ of 1.1 nM against PPAR α and 1000-fold selectivity over the other human subtypes, PPAR α and- γ ^[1]. GW 501516 exerts anti-inflammatory effects in mouse cultured proximal tubular (mProx) cells. GW 501516 inhibits palmitate- and TNF α -induced increases in MCP-1 mRNA expression in a dose-dependent manner^[3].

In Vivo: GW 501516 causes impaired bone formation, leading to decreased BMD and deterioration of bone properties in OVX rats^[2]. GW 501516 attenuates interstitial inflammation and proximal tubular cell damage in a protein-overload mouse nephropathy model^[3]. GW 501516 treatment enhances running endurance and the proportion of succinate dehydrogenase (SDH)-positive muscle fibres in both trained and untrained mice^[4].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!