Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 :

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Alternative Names:
GW 1516;GSK-516

Observed Molecular Weight:
453.5

Product Description

GW 501516 is a **PPARδ** agonist with an **EC_{50}** of 1.1 nM.

IC50 & Target: EC50: 1.1 nM (PPARδ)[1]

In Vitro: GW 501516 is shown to be the most potent and selective PPARα agonists known with an EC_{50} of 1.1 nM against PPARα and 1000-fold selectivity over the other human subtypes, PPARα and-γ[1]. GW 501516 exerts anti-inflammatory effects in mouse cultured proximal tubular (mProx) cells. GW 501516 inhibits palmitate- and TNFα-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].