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

GW3965 (hydrochloride)

Catalog No: tcsc0843

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
405911-17-3

Formula:
$C_{33}H_{32}Cl_2F_3NO_3$

Pathway:
Metabolic Enzyme/Protease

Target:
LXR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 125 mg/mL (202.10 mM)

Observed Molecular Weight:
618.51

Product Description

GW3965 hydrochloride is a potent, selective **LXR** agonist for hLXRα and hLXRβ with **EC_{50}** of 190 and 30 nM, respectively.

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IC50 & Target: EC50: 190 nM (hLXRα), 30 nM (hLXRβ)[4]

In Vitro: GW3965 hydrochloride promotes GBM cell death in vitro with enhanced efficacy in EGFRvIII-expressing tumor cells. GW3965 hydrochloride up-regulates expression of the cholesterol transporter gene ABCA1 and the E3 ubiquitin ligase IDOL and reduces LDLR levels[2]. LXR ligands inhibits platelet aggregation and calcium mobilization stimulated by collagen or CRP. GW3965 hydrochloride (1 or 5 μM) displays a minor inhibitory effect on fibrinogen binding and P-selectin exposure, when platelets are stimulated with 1 μg/mL CRP. But using higher concentrations of GW3965 hydrochloride (10 μM) or T0901317 (40 μM), the levels of fibrinogen and P-selectin on the platelet surface are reduced[3].

In Vivo: GW3965 hydrochloride induces an increase of neuroactive steroids in the spinal cord, the cerebellum and the cerebral cortex of STZ-rats, but not in the CNS of non-pathological animals. GW3965 hydrochloride treatment induces an increase of dihydroprogesterone in the spinal cord of diabetic animals in association with an increase of myelin basic protein expression[1]. GW3965 hydrochloride (40 mg/kg, p.o.) strongly induces ABCA1 expression and reduces LDLR expression, and this is accompanied by 59% inhibition of tumor growth, and a 25-fold increase in GBM cell apoptosis in vivo[2]. GW3965 hydrochloride (2 mg/kg, i.v.) increases bleeding time and modulated platelet thrombus formation in vivo[3].