

# GW3965

Catalog No: tcsc0842



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

405911-09-3

**Formula:**

$C_{33}H_{31}ClF_3NO_3$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

LXR

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

582.05

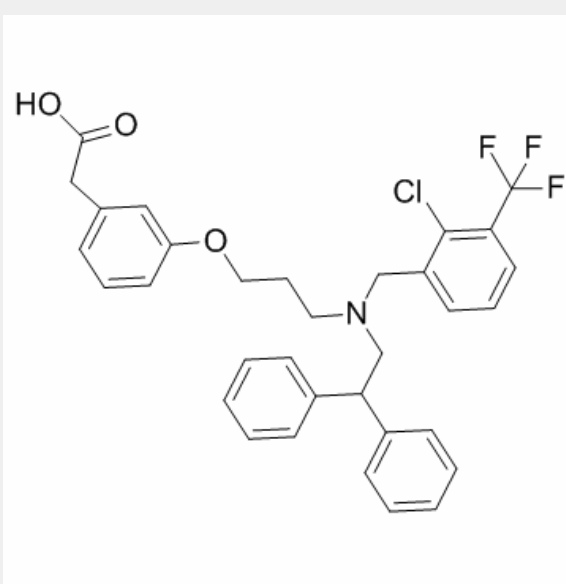
## Product Description

GW3965 is a potent, selective **LXR** agonist for hLXR $\alpha$  and hLXR $\beta$  with **EC<sub>50</sub>** of 190 and 30 nM, respectively.

IC50 & Target: EC50: 190 nM (hLXR $\alpha$ ), 30 nM (hLXR $\beta$ )

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

***In Vivo:*** GW3965 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 treatment induces an increase of dihydroprogesterone in the spinal cord of diabetic animals in association with an increase of myelin basic protein expression<sup>[1]</sup>. GW3965 (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<sup>[2]</sup>. GW3965 (2 mg/kg, i.v.) increases bleeding time and modulated platelet thrombus formation in vivo<sup>[3]</sup>.



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