

GW-1100

Catalog No: tcsc0280

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:

306974-70-9

Formula:

 $\mathsf{C}_{\mathbf{27}}\mathsf{H}_{\mathbf{25}}\mathsf{FN}_{\mathbf{4}}\mathsf{O}_{\mathbf{4}}\mathsf{S}$

Pathway:

GPCR/G Protein

Target:

GPR40

Purity / Grade:

Solubility:

10 mM in DMSO

Observed Molecular Weight:

520.58

Product Description

GW-1100 is a selective **GPR40** antagonist with a **pIC**₅₀ of 6.9. GW1100 acts as a GPR40 inverse agonist.

IC50 & Target: pIC50: 6.9 (GPR40)^[1]

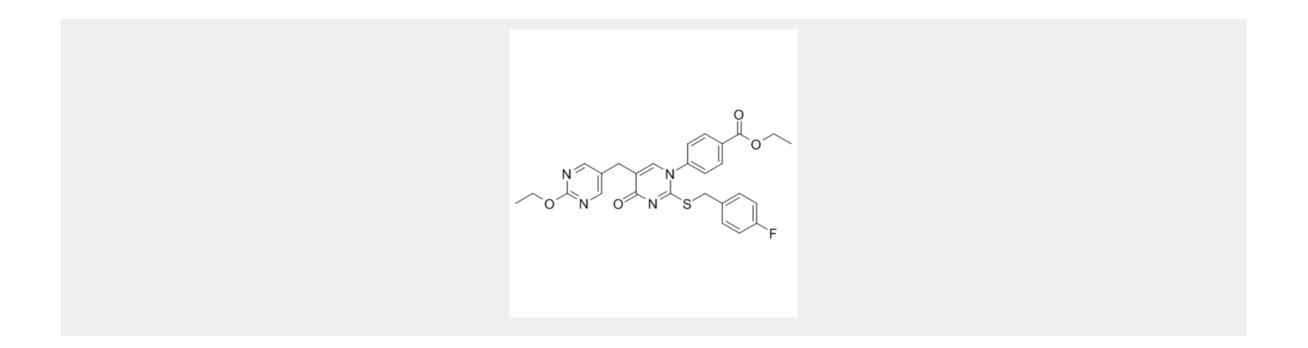
In Vitro:

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GW-1100 (GW1100) dose dependently inhibits GPR40-mediated Ca²⁺ elevations stimulated by GW9508 and linoleic acid (plC₅₀ values of 5.99 ± 0.03 and 5.99 ± 0.06 , respectively). GW-1100 at a concentration of 1 μ M produces a significant rightward shift in the concentration-response curve to GW9508 (pEC₅₀=7.17±0.08 in the absence and pEC₅₀=6.79±0.09 in the presence of 1 μ M GW-1100; P50 response^[2]. GW-1100 (GW1100) reduces FFAR1 ligand-induced intracellular calcium in CHO-K1/bFFAR1 cells and neutrophils. CHO-K1/bFFAR1 cells are incubated for 15 min with 10 μ M GW1100 or vehicle (0.1% DMSO) and then stimulated with vehicle, oleic acid, linoleic acid or GW9508. GW-1100 significantly reduces the increase in intracellular calcium induced by 300 μ M oleic acid (AUC_(60-150 s), p(60-150 s), p(60-150 s), p[3].

In Vivo: The intracerebroventricular injection of DHA (50 μ g) and GW9508 (1.0 μ g), a GPR40-selective agonist, significantly reduces mechanical allodynia and thermal hyperalgesia at day 7, but not at day 1, after CFA injection. These effects are inhibited by intracerebroventricular pretreatment with GW-1100 (10 μ g), a GPR40 antagonist^[4].



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