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

G-1

Catalog No: tcsc0027669

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Specifications

CAS No:
881639-98-1

Formula:
$C_{21}H_{18}BrNO_3$

Pathway:
Others

Target:
Estrogen Receptor/ERR

Purity / Grade:
>98%

Solubility:
H2O :

Observed Molecular Weight:
412.28

Product Description

G-1 is a nonsteroidal, high-affinity and selective agonist of **GPR30** with a $\mathbf{K_i}$ of 11 nM.

IC50 & Target: Ki: 11 nM (GPR30)[1]

In Vitro:

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G-1 is a nonsteroidal, high-affinity and selective agonist of GPR30 with a K_i of 11 nM[1]. Treatment with G-1 (10 μM and 100 μM) for 48 and 72 h significantly decreases cell proliferation (P50 value for G-1 is calculated to be 20 μM. Treatment of A549 cells with G-1 at a concentration of 20 μM reveals a significant increase in apoptosis, consistent with its antiproliferative effect (P[2]. Cell cycle analysis of H295R cells after 24 h of G-1 treatment demonstrates a cell cycle arrest in the G_2 phase. The presence of G-1 increases Bax expression while decreases Bcl-2[3].

In Vivo: The results at 14 days post-injury show that the Basso mouse scale (BMS) scores are significantly higher in the G-1 group compared with the other groups (P0.05)[1]. G-1 administration produces a statistically significant decrease in tumor volume from day 14 post treatment. Grafted tumors harvested after three-week treatment with G-1 show a significant decrease in tumor weight compare to vehicle treated animals[3].