Product Name: GW3965
CAS No.: 405911-09-3
Cat. No.: HY-10627
MWT: 582.05
Formula: C33H31ClF3NO3
Purity: >98%
Solubility: DMSO

Mechanisms:
Pathways: Others; Target: LXR

Biological Activity:
GW3965 is a potent, selective LXR agonist for hLXRα and hLXRβ with EC50 of 190 and 30 nM, respectively.
IC50 value: 190/30 nM (hLXRα/β)
Target: LXR
GW3965 has an EC50 = 125 nM in a cell-free ligand-sensing assay of LXRα and profiles as a full agonist on hLXRα and hLXRβ in cell-based assays with EC50 = 190 nM and 30 nM, respectively. Angiotensin II-mediated increases in blood pressure can be reduced by GW3965 hydrochloride. In HepG2 cells, the EC50 for GW3965 is greater than 4 μM. In an animal study, GW3965 hydrochloride decreased lesion area by 53%/34% in male and female LDLR-/- mice, respectively. GW3965 induced expression of ATP-binding cassettes A1 and G1 in modified low-density lipoprotein-loaded macrophages in vitro as well as in the aortas of hyperlipidemic mice. Additionally, GW3965 hydrochloride increases ABCA1 gene expression and raises circulating HDL levels...

References:
[1]. Mitro, Nico; Cermenati, Gaia; Giatti, Silvia et al. LXR and TSPO as new therapeutic targets to increase the levels of neuroactive steroids in the central nervous system of diabetic animals. Neurochemistry International (2012), 60(6), 616-621.
[4]. Donkin, James J.; Stukas, Sophie; Hirsch-Reinshagen, Veronica et al. ATP-binding Cassette Transporter A1 Mediates the Beneficial Effects of the Liver X Receptor Agonist GW3965 on Object Recognition Memory and Amyloid Burden in Amyloid Precursor Protein/Presenilin...

Caution: Not fully tested. For research purposes only

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