

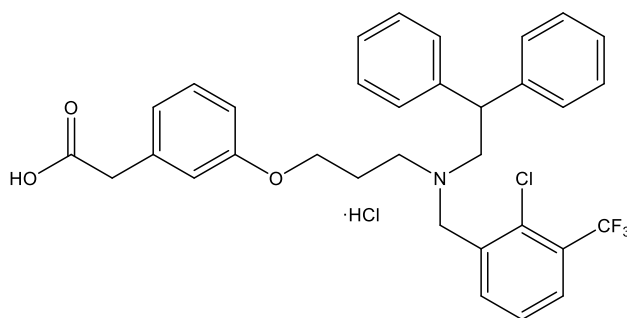
**Catalog #10-3069**

**GW3965 HCl**

CAS# 405911-17-3

3-[3-[[[2-Chloro-3-(trifluoromethyl)phenyl]methyl](2,2-diphenylethyl)amino]propoxy]-benzeneacetic acid, hydrochloride

Lot # E105247



GW3965 is a potent and selective LXR agonist, activating human LXR $\alpha$  and  $\beta$  in cell-based reporter gene assays ( $EC_{50}$ =190 and 30 nM respectively).<sup>1</sup> Since LXR is a master regulator of cholesterol and fatty acid metabolism, GW3965 exerts a variety of effects including antiatherosclerotic<sup>2</sup>, antiinflammatory<sup>3</sup> as well as antinociceptive<sup>4</sup> and alteration of fat tissue distribution<sup>5</sup>. Orally active.

- 1) Collins *et al.* (2002), *Identification of a nonsteroidal liver X receptor agonist through parallel array synthesis of tertiary amines*; J.Med.Chem. **45** 1963
- 2) Blaschke *et al.* (2006), *A nuclear receptor corepressor-dependent pathway mediates suppression of cytokine-induced C-reactive protein gene expression by liver X receptor*; Nature **99** e88
- 3) Schulman *et al.* (2017), *Liver X Receptors Link Lipid Metabolism and Inflammation*; FEBS Lett. **591** 2978
- 4) Hullugundi *et al.* (2024), *Cholesterol-dependent LXR transcription factor activity represses pronociceptive effects of estrogen in sensory neurons and pain induced by myelin basic protein fragments*; Brain Behav. Immun. Health **38** 100757
- 5) Archer *et al.* (2013), *LXR activation by GW3965 alters fat tissue distribution and adipose tissue inflammation in ob/ob female mice*; J. Lipid Res. **54** 1300

**PHYSICAL DATA**

Molecular Weight:	618.52
Molecular Formula:	C <sub>33</sub> H <sub>31</sub> ClF <sub>3</sub> NO <sub>3</sub> ·HCl
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (48 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

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