Certificate of Analysis

Product Name: **GW 3965 hydrochloride** **Catalog No.: 2474** **Batch No.: 2**

CAS Number: 405911-17-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{33}H_{31}NO_3ClF_3.HCl.H_2O$

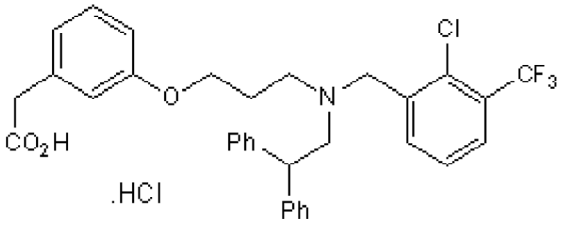
Batch Molecular Weight: 636.53

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate:Hexane [1:1])

Melting Point: Between 178 - 180°C

HPLC: Shows 99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.27	5.38	2.2
Found	62.22	5.08	2.17

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Description:

GW 3965 hydrochloride is a selective, orally active non-steroidal agonist for the liver X receptor (LXR). In cell-based reporter gene assays, acts as a full agonist of hLXRα and hLXRβ (EC_{50} values are 190 and 30 nM respectively). Reduces angiotensin II-mediated increases in blood pressure; up-regulates ABCA1 gene expression and raises circulating HDL levels. Displays potent antiatherogenic activity in mouse models of atherosclerosis.

Physical and Chemical Properties:

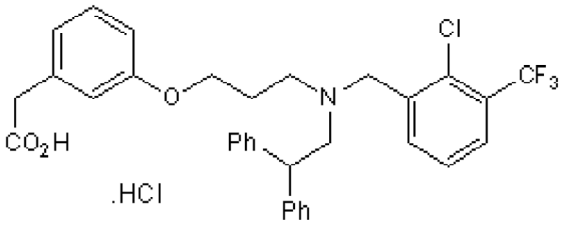
Batch Molecular Formula: $C_{33}H_{31}NO_3ClF_3.HCl.H_2O$

Batch Molecular Weight: 636.53

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 mM

When purchased as a 1mg unit, this product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline

References:

Leik *et al* (2007) GW3965, a synthetic liver X receptor (LXR) agonist, reduces angiotensin II-mediated pressor responses in Sprague-Dawley rats. Br.J.Pharmacol. ***151*** 450. PMID: 17420776.

Collins *et al* (2002) Identification of a nonsteroidal liver X receptor agonist through parallel array synthesis of tertiary amines. J.Med.Chem. ***45*** 1963. PMID: 11985463.

Joseph *et al* (2002) Synthetic LXR ligand inhibits the development of atherosclerosis in mice Proc.Natl.Acad.Sci.USA ***99*** 7604.