TOCRIS
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Print Date: Jun 16th 2016

Certificate of Analysis

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Product Name: **GW 9508** **Catalog No.: 2649** **Batch No.: 1**

CAS Number: 885101-89-3

IUPAC Name: 4-[[(3-Phenoxyphenyl)methyl]amino]benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{21}NO_3$

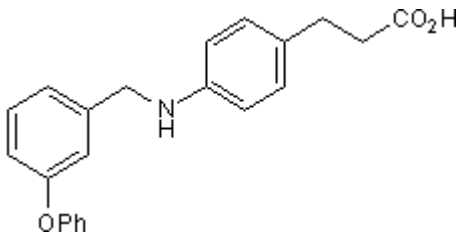
Batch Molecular Weight: 347.41

Physical Appearance: Cream solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.06	6.09	4.03
Found	76.43	5.91	4.11

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IUPAC Name: 4-[[(3-Phenoxyphenyl)methyl]amino]benzenepropanoic acid

Description:

Potent and selective agonist for the free fatty acid receptor FFA1 (GPR40) (pEC_{50} values are 7.32, < 4.3 and < 4.3 for FFA1, FFA2 and FFA3 receptors respectively). Inactive against a range of other GPCRs, kinases, proteases, integrins and PPARs. Potentiates glucose-stimulated insulin secretion in MIN6 cells (pEC_{50} = 6.14).

Physical and Chemical Properties:

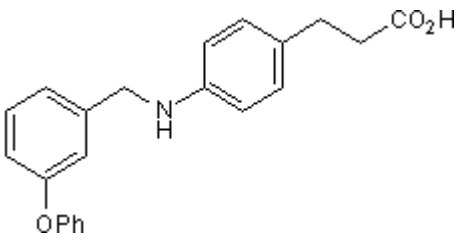
Batch Molecular Formula: $C_{22}H_{21}NO_3$

Batch Molecular Weight: 347.41

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

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. Our standard recommendations are:

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.

References:

Zhao and Chen (2008) Activation of ATP-sensitive potassium channels in rat pancreatic β-cells by linoleic acid through both intracellular metabolites and membrane receptor signalling pathway. J.Endocrinol. ***198*** 533. PMID: 18550787.

Briscoe *et al* (2006) Pharmacological regulation of insulin secretion in MIN6 cells through fatty acid receptor GPR40: identification of agonist and antagonist small molecules. Br.J.Pharmacol. ***148*** 619. PMID: 16702987.

Garrido *et al* (2006) Synthesis and activity of small molecule GPR40 agonists. Bioorg.Med.Chem.Lett. ***16*** 1840. PMID: 16439116.

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