

Certificate of Analysis

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Product Name: GW 438014A

Catalog No.: 4669

Batch No.: 1

CAS Number: 469861-49-2

IUPAC Name: *N*-[1-(2-Phenylethyl)-1*H*-benzimidazol-2-yl]benzamide methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₉N₃O.CH₃SO₃H

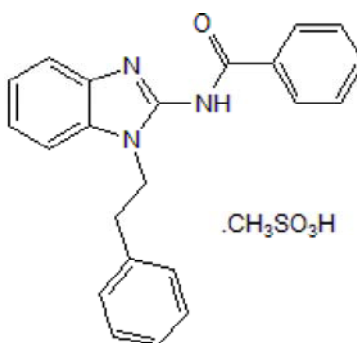
Batch Molecular Weight: 437.51

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Dichloromethane)

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.14	5.3	9.6
Found	63.17	5.32	9.61

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Neuropeptide (NPY) Y₅ receptor antagonist (IC₅₀ = 210 nM). Reduces NPY-induced food intake in rodents and decreases weight gain in obese rats.

Physical and Chemical Properties:

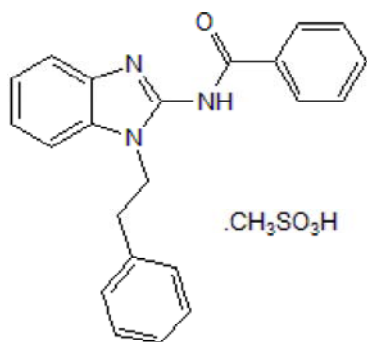
Batch Molecular Formula: C₂₂H₁₉N₃O₃.CH₃SO₃H

Batch Molecular Weight: 437.51

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline.

References:

Benmaamar et al (2005) Neuropeptide Y Y₅ receptors inhibit kindling acquisition in rats. *Regul.Pept.* **125** 79. PMID: 15582717.

Daniels et al (2002) Food intake inhibition and reduction in body weight gain in lean and obese rodents treated with GW438014A, a potent and selective NPY-Y₅ receptor antagonist. *Regul.Pept.* **106** 47. PMID: 12047910.

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