Product Name: GW 438014A  
Catalog No.: 4669  
Batch No.: 1

CAS Number: 469861-49-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{19}\text{N}_{3}\text{O}.\text{CH}_{3}\text{SO}_{3}\text{H} \)

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:

![Molecular Structure Image]

2. ANALYTICAL DATA

TLC: \( R_f = 0.32 \) (Dichloromethane)

HPLC: Shows 99.5% purity

\(^1\text{H} \text{NMR}: \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>63.14</td>
<td>63.17</td>
</tr>
<tr>
<td>H</td>
<td>5.3</td>
<td>5.32</td>
</tr>
<tr>
<td>N</td>
<td>9.6</td>
<td>9.61</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: GW 438014A
CAS Number: 469861-49-2
IUPAC Name: N-[1-(2-Phenylethyl)-1H-benzimidazol-2-yl]benzamide methanesulfonate

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: C₂₂H₁₉N₅O.CH₂SO₃H
Batch Molecular Weight: 437.51
Physical Appearance: White solid
Minimum Purity: >99%

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: