1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{23}\text{H}_{24}\text{Cl}_{2}\text{N}_{2}\text{O}_{3} \)

Batch Molecular Weight: 447.36

Physical Appearance: White solid

Solubility: DMSO to 50 mM, ethanol to 50 mM

Storage: Store at RT

Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

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

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>61.75</td>
<td>5.41</td>
<td>6.26</td>
</tr>
<tr>
<td>Found</td>
<td>61.74</td>
<td>5.43</td>
<td>6.16</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: GW 405833
Catalog No.: 2374  Batch No.: 3

CAS Number: 180002-83-9
IUPAC Name: 1-(2,3-Dichlorobenzoyl)-5-methoxy-2-methyl-3-[2-(4-morpholinyl)ethyl]-1H-indole

Description:
Potent and selective CB₂ receptor partial agonist (EC₅₀ = 0.65 nM; maximum inhibition = 44.6%). Binds with high affinity to both human and rat CB₂ receptors and displays ~ 1200-fold selectivity over CB₁ (Kᵢ values are 3.92 and 4772 nM for human recombinant CB₂ and CB₁ receptors respectively). Produces potent antihyperalgesic effects in several rodent models of pain.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₂₅Cl₂N₂O₃
Batch Molecular Weight: 447.36
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at RT
Solubility & Usage Info:
DMSO to 50 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 CANADA ONLY
This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References: