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:

```
\[ \text{MeO} \]
\[ \text{Me} \]
\[ \text{O} \]
\[ \text{Cl} \]
\[ \text{Cl} \]
```

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>61.75</td>
<td>61.74</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.41</td>
<td>5.43</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.26</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 CB$_2$ receptor partial agonist ($EC_{50} = 0.65$ nM; maximum inhibition = 44.6%). Binds with high affinity to both human and rat CB$_2$ receptors and displays ~1200-fold selectivity over CB$_1$ ($K_i$ values are 3.92 and 4772 nM for human recombinant CB$_2$ and CB$_1$ receptors respectively). Produces potent antihyperalgesic effects in several rodent models of pain.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{23}$H$_{24}$Cl$_2$N$_2$O$_3$
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 THE UK ONLY
This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevent licence or be exempt from restrictions in order to purchase and possess this material.

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: