

Certificate of Analysis

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Product Name: GW 405833

Catalog No.: 2374

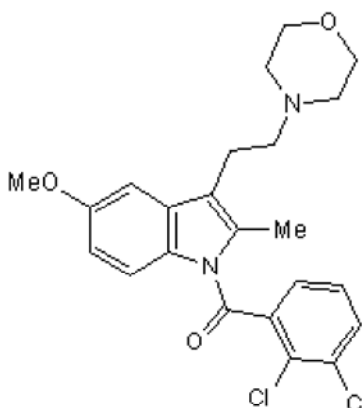
Batch No.: 3

CAS Number: 180002-83-9

IUPAC Name: 1-(2,3-Dichlorobenzoyl)-5-methoxy-2-methyl-3-[2-(4-morpholinyl)ethyl]-1*H*-indole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄Cl₂N₂O₃
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:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.75	5.41	6.26
Found	61.74	5.43	6.16

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

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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 (K_i 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:

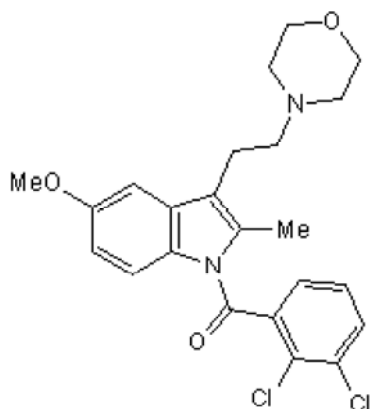
Batch Molecular Formula: C₂₃H₂₄Cl₂N₂O₃

Batch Molecular Weight: 447.36

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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 relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Valenzano *et al* (2005) Pharmacological and pharmacokinetic characterization of the cannabinoid receptor 2 agonist, GW405833, utilizing rodent models of acute and chronic pain, anxiety, ataxia and catalepsy. *Neuropharmacology* **48** 658. PMID: 15814101.

Clayton *et al* (2002) CB₁ and CB₂ cannabinoid receptors are implicated in inflammatory pain. *Pain* **96** 253. PMID: 11972997.

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