

# Certificate of Analysis

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**Product Name:** BML-190

**Catalog No.:** 1383

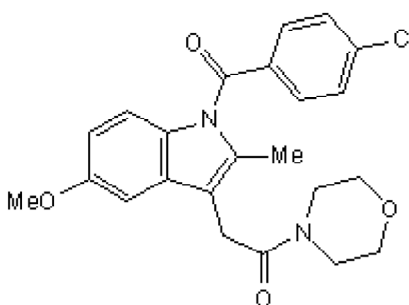
**Batch No.:** 2

**CAS Number:** 2854-32-2

**IUPAC Name:** 1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-1-[2-(4-morpholinyl)-2-oxoethyl]-1*H*-indole

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 426.9  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.78 (Dichloromethane:Methanol [9:1])  
**Melting Point:** Between 166 - 168°C  
**HPLC:** Shows >99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure

### Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	64.71	5.43	6.56
Found	64.78	5.51	6.54

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

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)  
Tel: +1 612 379 2956

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**2**

CAS Number: 2854-32-2

IUPAC Name: 1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-1-[2-(4-morpholinyl)-2-oxoethyl]-1*H*-indole

**Description:**

Potent and selective CB<sub>2</sub> receptor ligand (K<sub>i</sub> values are 435 nM and > 2 μM for CB<sub>2</sub> and CB<sub>1</sub> respectively).

**Physical and Chemical Properties:**

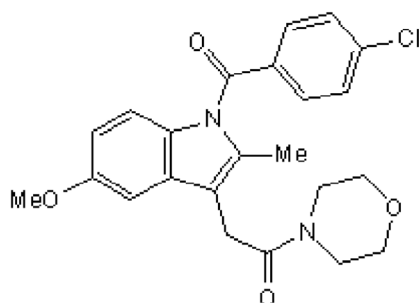
Batch Molecular Formula: C<sub>23</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>4</sub>

Batch Molecular Weight: 426.9

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM with gentle warming

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

**References:**

**Melck et al** (2000) Suppression of nerve growth factor Trk receptors and prolactin receptors by endocannabinoids leads to inhibition of human breast and prostate cancer cell proliferation. *Endocrinology* **141** 118. PMID: 10614630.

**Gallant et al** (1996) New class of potent ligands for the human peripheral cannabinoid receptor. *Bioorg.Med.Chem.Lett.* **6** 2263.

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