

**Product Name:** AM 630

**Catalog No.:** 1120

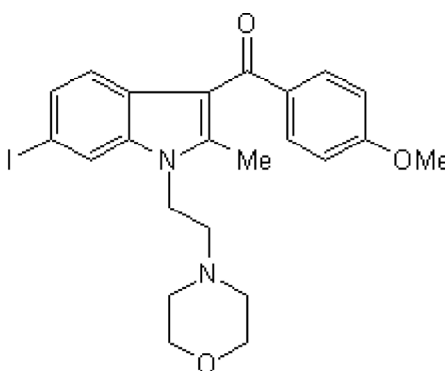
**Batch No.:** 7

CAS Number: 164178-33-0

IUPAC Name: 6-Iodo-2-methyl-1-[2-(4-morpholinyl)ethyl]-1*H*-indol-3-yl(4-methoxyphenyl)methanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>25</sub>IN<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 504.37  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.71 (Chloroform:Methanol [10:1])  
**Melting Point:** At 151°C  
**HPLC:** Shows >98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.77	5	5.55
Found	54.59	4.93	5.34

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**Description:**

AM 630 is a CB<sub>2</sub> inverse agonist (K<sub>i</sub> = 31.2 nM) that displays 165-fold selectivity over CB<sub>1</sub> receptors. Behaves as a weak partial/inverse agonist at CB<sub>1</sub> receptors.

**Physical and Chemical Properties:**

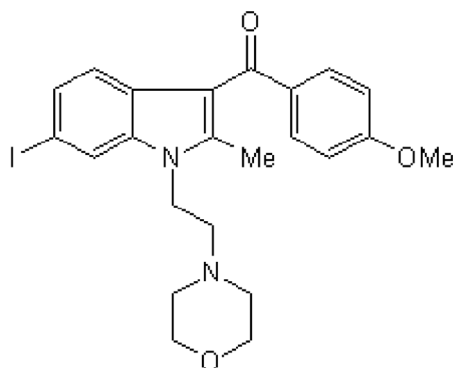
Batch Molecular Formula: C<sub>23</sub>H<sub>25</sub>IN<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 504.37

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 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. \*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.

**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:**

**Ross et al** (1999) Agonist-inverse agonist characterization at CB<sub>1</sub> and CB<sub>2</sub> cannabinoid receptors of L759633, L759656 and AM630. Br.J.Pharmacol. **126** 665. PMID: 10188977.

**Landsman et al** (1998) AM630 is an inverse agonist at the human cannabinoid CB<sub>1</sub> receptor. Life Sci. **62** PL109. PMID: 9496703.

**Hosohata et al** (1997) AM630 antagonism of cannabinoid-stimulated [<sup>35</sup>S]GTPγS binding in the mouse brain. Eur.J.Pharmacol. **321** R1. PMID: 9083796.

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**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  
Tel:+1 612 379 2956