

Product Name: AM 630

Catalog No.: 1120

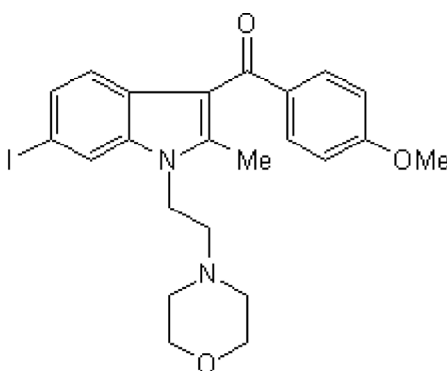
Batch No.: 16

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: C₂₃H₂₅IN₂O₃
Batch Molecular Weight: 504.37
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.63 (Chloroform:Methanol [9:1])
HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.77	5	5.55
Found	55.01	5.07	5.6

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

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Description:

AM 630 is a CB₂ inverse agonist (K_i = 31.2 nM) that displays 165-fold selectivity over CB₁ receptors. Behaves as a weak partial/inverse agonist at CB₁ receptors.

Physical and Chemical Properties:

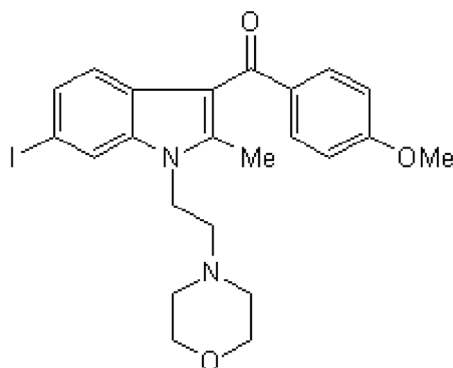
Batch Molecular Formula: C₂₃H₂₅IN₂O₃

Batch Molecular Weight: 504.37

Physical Appearance: Yellow 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 CB₁ and CB₂ 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 CB₁ receptor. Life Sci. **62** PL109. PMID: 9496703.

Hosohata et al (1997) AM630 antagonism of cannabinoid-stimulated [³⁵S]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