

Certificate of Analysis

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Product Name: JWH 018

Catalog No.: 1342

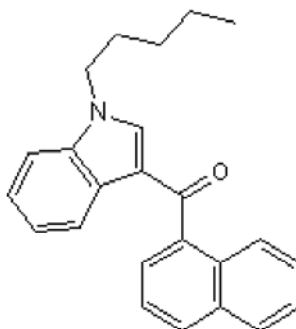
Batch No.: 1

CAS Number: 209414-07-3

IUPAC Name: (1-Pentyl-1*H*-indol-3-yl)-1-naphthalenylmethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|-------------------------------------|
| Batch Molecular Formula: | C ₂₄ H ₂₃ NO |
| Batch Molecular Weight: | 341.45 |
| Physical Appearance: | Yellow oil |
| Solubility: | DMSO to 100 mM ethanol to 100 mM |
| Storage: | Desiccate at -20°C |
| Batch Molecular Structure: | |



2. ANALYTICAL DATA

| | |
|---------------------------|--|
| TLC: | R _f = 0.4 (Ethyl acetate:Petroleum ether [4:1]) |
| HPLC: | Shows >99.4% purity |
| ¹H NMR: | Consistent with structure |
| Mass Spectrum: | Consistent with structure |

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

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Product Information

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CAS Number: 209414-07-3

IUPAC Name: (1-Pentyl-1*H*-indol-3-yl)-1-naphthalenylmethanone

Description:

Potent cannabinoid receptor agonist with mild selectivity for CB₂ (K_i values are 2.94 and 9.0 nM for CB₂ and CB₁ receptors respectively).

Physical and Chemical Properties:

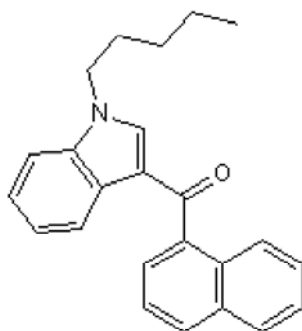
Batch Molecular Formula: C₂₄H₂₃NO

Batch Molecular Weight: 341.45

Physical Appearance: Yellow oil

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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. 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:

Huffman *et al* (2003) 3-Indolyl-1-naphthylmethanes: New cannabimimetic indoles provide evidence for aromatic stacking interactions with the CB₁ cannabinoid receptor. *Bioorg.Med.Chem.* **11** 539. PMID: 12538019.

Aung *et al* (2000) Influence of the N-1 alkyl chain length of cannabimimetic indoles upon CB₁ and CB₂ receptor binding. *Drug Alcohol Depend.* **60** 133. PMID: 10940540.

Chin *et al* (1999) The third transmembrane helix of the cannabinoid receptor plays a role in the selectivity of aminoalkylindoles for CB₂, peripheral cannabinoid receptor. *J.Pharmacol.Exp.Ther.* **291** 837. PMID: 10525107.

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