

**Product Name:** CB 13

**Catalog No.:** 2928

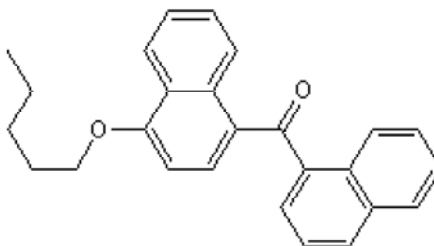
**Batch No.:** 1

CAS Number: 432047-72-8

IUPAC Name: 1-Naphthaleny[4-(pentyloxy)-1-naphthalenyl]methanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>24</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 368.47  
**Physical Appearance:** solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.48 (Ether:Petroleum ether [5:95])  
**HPLC:** Shows >99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	84.75	6.56	
Found	84.6	6.52	

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

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**Description:**

Potent, orally active CB<sub>1</sub>/CB<sub>2</sub> receptor agonist with limited brain penetration (EC<sub>50</sub> values are 6.1 and 27.9 nM for CB<sub>1</sub> and CB<sub>2</sub> receptors respectively). Displays antihyperalgesic activity in a rat model of neuropathic pain with no CNS side effects.

**Physical and Chemical Properties:**

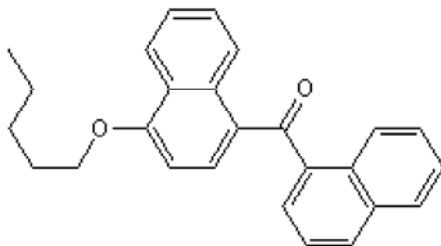
Batch Molecular Formula: C<sub>26</sub>H<sub>24</sub>O<sub>2</sub>

Batch Molecular Weight: 368.47

Physical Appearance: solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 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 CANADA ONLY**

This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**References:**

**Cluny et al** (2010) Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone (SAB378), a peripherally restricted cannabinoid CB<sub>1</sub>/CB<sub>2</sub> receptor agonist, inhibits gastrointestinal motility but has no effect on experimental colitis in mice. *J.Pharmacol.Exp.Ther.* **334** 973. PMID: 20571060.

**Dzidulewicz et al** (2007) Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone: a potent, orally bioavailable human CB<sub>1</sub>/CB<sub>2</sub> dual agonist with antihyperalgesic properties and restricted central nervous system penetration. *J.Med.Chem.* **50** 3851. PMID: 17630726.

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