

Certificate of Analysis

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Product Name: CB 13

Catalog No.: 2928

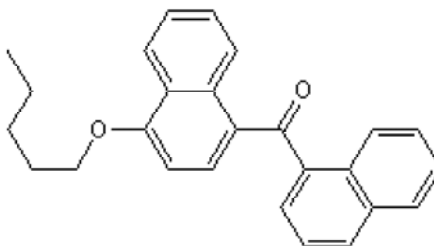
Batch No.: 1

CAS Number: 432047-72-8

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₄O₂
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_f = 0.48 (Ether:Petroleum ether [5:95])
HPLC: Shows 99.7% purity
¹H 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

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

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Description:

Potent, orally active CB₁/CB₂ receptor agonist with limited brain penetration (EC₅₀ values are 6.1 and 27.9 nM for CB₁ and CB₂ receptors respectively). Displays antihyperalgesic activity in a rat model of neuropathic pain with no CNS side effects.

Physical and Chemical Properties:

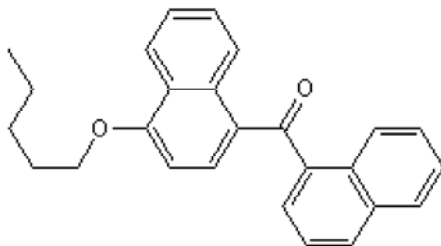
Batch Molecular Formula: C₂₆H₂₄O₂

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.

References:

Cluny *et al* (2010) Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone (SAB378), a peripherally restricted cannabinoid CB₁/CB₂ receptor agonist, inhibits gastrointestinal motility but has no effect on experimental colitis in mice. *J.Pharmacol.Exp.Ther.* **334** 973. PMID: 20571060.

Dziadulewicz *et al* (2007) Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone: a potent, orally bioavailable human CB₁/CB₂ dual agonist with antihyperalgesic properties and restricted central nervous system penetration. *J.Med.Chem.* **50** 3851. PMID: 17630726.

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