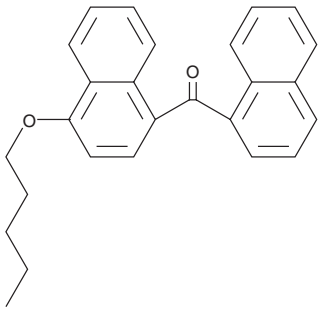
PRODUCT INFORMATION

CB-13

Item No. 10010398

CAS Registry No.:	432047-72-8
Formal Name:	1-naphthalenyl[4-(pentylox)-1-naphthalenyl]-methanone
Synonym:	CRA-13
MF:	$C_{26}H_{24}O_2$
FW:	368.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 220, 333 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CB-13 is supplied as a crystalline solid. A stock solution may be made by dissolving the CB-13 in an organic solvent purged with an inert gas. CB-13 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of CB-13 in these solvents is approximately 0.2, 5, and 20 mg/ml, respectively.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

CB-13 is a dual agonist of the, central cannabinoid (CB_1) (IC_{50} = 15 nM) and peripheral cannabinoid (CB_2) (IC_{50} = 98 nM) receptors.[1] In rats, oral CB-13 (3 mg/kg) potently blocks CB_1-dependent neuropathic mechanical hyperalgesia, shows limited brain penetration, and exhibits good oral bioavailability.[1] CB-13 does not possess genotoxic potential, as indicated by negative results in both chromosome aberration and reverse mutation assays.[1] The effects of CB-13 on other aspects of CB signaling have not been assessed.

Reference

1. Dziadulewicz, E.K., Bevan, S.J., Brain, C.T., *et al.* Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone: A potent, orally bioavailable human CB_1/CB_2 dual agonist with antihyperalgesic properties and restricted central nervous system penetration. *J. Med. Chem.* **50(16)**, 3851-3856 (2007).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM