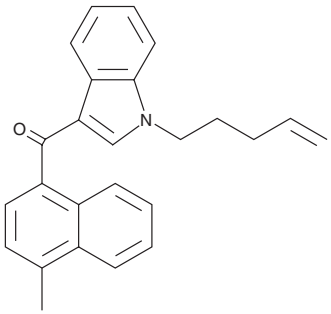
PRODUCT INFORMATION

JWH 122 N-(4-pentenyl) analog

Item No. 11611

CAS Registry No.: 1445577-68-3
Formal Name: (4-methylnaphthalen-1-yl)(1-(pent-4-en-1-yl)-1H-indol-3-yl)methanone
Synonyms: JWH 022 4-methylnaphthyl analog, MAM2201 N-(4-pentenyl) analog
MF: $C_{25}H_{23}NO$
FW: 353.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 222, 315 nm



Laboratory Procedures

For long term storage, we suggest that JWH 122 N-(4-pentenyl) analog be stored as supplied at -20°C. It should be stable for at least two years.

JWH 122 N-(4-pentenyl) analog is supplied as a crystalline solid. A stock solution may be made by dissolving the JWH 122 N-(4-pentenyl) analog in the solvent of choice. JWH 122 N-(4-pentenyl) analog is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of JWH 122 N-(4-pentenyl) analog in ethanol is approximately 5 mg/ml and approximately 15 mg/ml in DMSO and DMF.

JWH 122 N-(4-pentenyl) analog is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure 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

JWH 122 is a synthetic cannabinoid (CB) that displays high affinities for both the central CB_1 receptor (K_i = 0.69 nM) and the peripheral CB_2 receptor (K_i = 1.2 nM).[1,2] JWH 122 N-(4-pentenyl) analog is structurally related to JWH 122, differing only by the presence of a terminal double bond on the acyl chain. This compound is also structurally related to the cannabimimetic MAM2201. Analogs like this may be impurities or degradants that are found with, and serve as forensic markers for, the parent compounds. The physiological and toxicological properties of this analog are not known. This product is intended for forensic and research applications.

References

1. Huffman, J.W., Zengin, G., Wu, M.-J., *et al.* Structure-activity relationships for 1-alkyl-3-(1-naphthoyl) indoles at the cannabinoid CB_1 and CB_2 receptors: steric and electronic effects of naphthoyl substituents. New highly selective CB_2 receptor agonists. *Bioorg. Med. Chem.* **13**, 89-112 (2005).
2. Huffman, J.W., Mabon, R., Wu, M.-J., *et al.* 3-indolyl-1-naphthylmethanes: New cannabimimetic indoles provide evidence for aromatic stacking interactions with the CB_1 cannabinoid receptor. *Bioorg. Med. Chem.* **11**, 539-549 (2003).

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