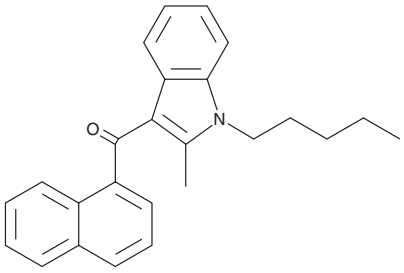
PRODUCT INFORMATION

JWH 007

Item No. 10266

CAS Registry No.:	155471-10-6
Formal Name:	(2-methyl-1-pentyl-1H-indol-3-yl)-1-naphthalenyl-methanone
MF:	$C_{25}H_{25}NO$
FW:	355.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 219, 320 nm
Supplied as:	A solution in methanol
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

JWH 007 is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of JWH 007 in these solvents is approximately 20 mg/ml.

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

JWH 007 is a potent cannabinoid (CB) receptor agonist that avidly binds to both CB_1 and CB_2 (K_i = 9.5 and 2.9 nM, respectively).[1,2] This compares favorably with the binding of Δ^9-THC, which binds CB_1 and CB_2 with K_i values of 41 and 36 nM, respectively.[2] Similarly, JWH 007 performs comparably to Δ^9-THC in mouse studies on spontaneous activity, antinociception, hypothermia, and catalepsy.[1]

References

1. Huffman, J.W., Dai, D., Martin, B.R., *et al.* Design, synthesis and pharmacology of cannabimimetic indoles. *Bioorg. Med. Chem. Lett.* **4(4)**, 563-566 (1994).
2. 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).

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