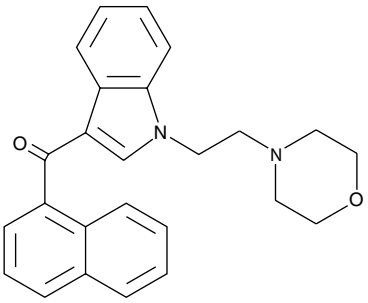
Product Information

JWH 200 (exempt preparation)

Item No. 13171



CAS Registry No.: 103610-04-4
Formal Name: [1-[2-(4-morpholinyl)ethyl]-1H-indol-3-yl]-1-naphthalenyl-methanone
MF: $C_{25}H_{24}N_2O_2$
FW: 384.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in acetonitrile

Laboratory Procedures

For long term storage, we suggest that JWH 200 (exempt preparation) be stored as supplied at -20°C. It should be stable for at least two years.

JWH 200 (exempt preparation) is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the acetonitrile under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of JWH 200 (exempt preparation) in these solvents is approximately 20 mg/ml.

JWH 200 (exempt preparation) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JWH 200 (exempt preparation) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. JWH 200 (exempt preparation) has a solubility of approximately 0.1 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

JWH 200 is an aminoalkylindole that acts as a cannabinoid (CB) receptor ligand. It binds to the CB_1 receptor with high-affinity (IC_{50} = 7.8 - 42 nM).[1,2] The effects of JWH 200 in locomotor activity, tail-flick latency, hypothermia, and ring-immobility tests are comparable or superior to Δ^9-THC or WIN 55,212.[3] It potently inhibits the contraction of electrically-stimulated murine vas deferens (IC_{50} = 3.7 - 6.0 nM).[4,5]

References

1. Eissenstat, M.A., Bell, M.R., D'Ambra, T.E., *et al.* Aminoalkylindoles: Structure-activity relationships of novel cannabinoid mimetics. *J. Med. Chem* **38**, 3094-3105 (1995).
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).
3. Compton, D.R., Gold, L.H., Ward, S.J., *et al.* Aminoalkylindole analogs: Cannabimimetic activity of a class of compounds structurally distinct from Δ^9-tetrahydrocannabinol. *J. Pharmacol. Exp. Ther.* **263(3)**, 1118-1126 (1992).
4. Pacheco, M., Childers, S.R., Arnold, R., *et al.* Aminoalkylindoles: Actions on specific G-protein-linked receptors. *J. Pharmacol. Exp. Ther.* **257(1)**, 170-183 (1991).
5. Bell, M.R., D'Ambra, T.E., Kumar, V., *et al.* Antinociceptive (aminoalkyl) indoles. *J. Med. Chem* **34**, 1099-1110 (1991).

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