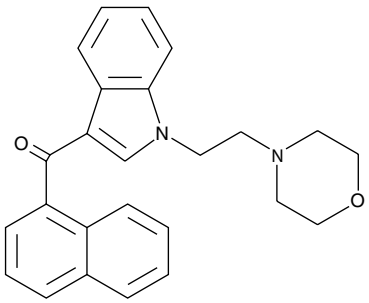
Product Information

JWH 200

Item No. 10902

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 crystalline solid
UV/Vis.: λ_{max}: 219, 314 nm
Packaged by: Cayman Chemical Company



Laboratory Procedures

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

JWH 200 is supplied as a crystalline solid. A stock solution may be made by dissolving the JWH 200 in an organic solvent purged with an inert gas. JWH 200 is soluble in organic solvents such as DMSO and DMF. The solubility of JWH 200 in these solvents is approximately 20 mg/ml.

JWH 200 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JWH 200 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. JWH 200 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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10902

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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