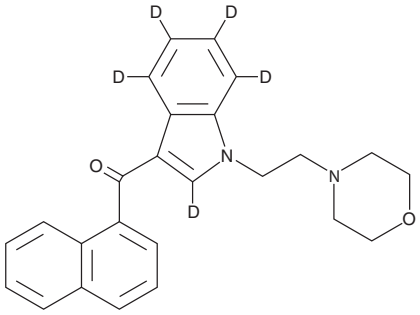
PRODUCT INFORMATION

JWH 200-d_5 (exempt preparation)

Item No. 10682

CAS Registry No.:	1651833-51-0
Formal Name:	[1-[2-(4-morpholinyl)ethyl]-1H-indol-3-yl-2',4',5',6',7'-d_5]-1-naphthalenyl-methanone
MF:	$C_{25}H_{19}D_5N_2O_2$
FW:	389.5
Chemical Purity:	≥98% JWH 200-d_5 (exempt preparation)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤1% d_0
UV/Vis.:	λ_{max}: 219, 247, 314 nm
Supplied as:	A solution in acetonitrile
Storage:	-20°C
Stability:	≥3 years



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

Laboratory Procedures

JWH 200-d_5 (exempt preparation) is intended for use as an internal standard for the quantification of JWH 200 (exempt preparation) (Item No. 13171) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

JWH 200-d_5 (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 methyl acetate, methanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of JWH 200-d_5 (exempt preparation) in these solvents is approximately 5, 2, 20, and 25 mg/ml, respectively.

Description

JWH 200 is an aminoalkylindole that acts as a cannabinoid (CB) receptor ligand. It binds to the CB1 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(16)**, 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. *Bioorgan. Med. Chem.* **11(4)**, 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(3)**, 1099-1110 (1991).

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