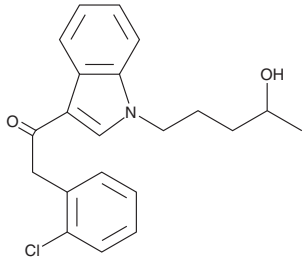
PRODUCT INFORMATION

JWH 203 N-(4-hydroxypentyl) metabolite

Item No. 14227

CAS Registry No.: 1843184-38-2
Formal Name: 2-(2-chlorophenyl)-1-[1-(4-hydroxypentyl)-1H-indol-3-yl]-ethanone
MF: $C_{21}H_{22}ClNO_2$
FW: 355.9
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A solution in methanol
UV/Vis.: λ_{max}: 212, 246, 305 nm



Laboratory Procedures

For long term storage, we suggest that JWH 203 N-(4-hydroxypentyl) metabolite be stored as supplied at -20°C. It should be stable for at least one year.

JWH 203 N-(4-hydroxypentyl) metabolite 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 DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of JWH 203 N-(4-hydroxypentyl) metabolite in these solvents is approximately 5 and 10 mg/ml, respectively.

JWH 203 N-(4-hydroxypentyl) metabolite 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 203 (Item No. 9000736) is an analgesic chemical from the phenylacetylindole family that acts as a cannabinoid (CB) agonist with K_i values of 8.0 and 7.0 nM at the central (CB_1) and peripheral (CB_2) CB receptors, respectively.[1] Similar to the related 2'-methoxy compound JWH 250 (Item No. 13634), JWH 203 has a phenylacetyl group in place of the naphthoyl ring used in most aminoalkylindole cannabinoid compounds. Compared to JWH 250, JWH 203 displays slightly more potent binding affinities for the CB_1 and CB_2 CB receptors (JWH 250 K_is = 11 and 33 nM, respectively).[1] JWH 203 N-(4-hydroxypentyl) metabolite is expected to be a metabolite of JWH 203 that would be detectable both in serum and in urine. While similar hydroxylated phase I metabolites of synthetic CB retain activity, the physiological properties of this compound have yet to be determined.[2,3] This product is intended for research and forensic applications.

References

1. Huffman, J.W., Szklennik, P.V., Almond, A., *et al.* 1-Pentyl-3-phenylacetylindoles, a new class of cannabimimetic indoles. *Bioorg. Med. Chem. Lett.* **15**, 4110-4113 (2005).
2. Brents, L.K., Reichard, E.E., Zimmerman, M., *et al.* Phase I hydroxylated metabolites of the K2 synthetic cannabinoid JWH-018 retain *in vitro* and *in vivo* cannabinoid 1 receptor affinity and activity. *PLoS One* **6(7)**, 1-9 (2011).
3. Brents, L.K., Gallus-Zawala, A., Radominska-Pandya, A., *et al.* Monohydroxylated metabolites of the K2 synthetic cannabinoid JWH-073 retainintermediate to high cannabinoid 1 receptor (CB1R) affinity and exhibit neutralantagonist to partial agonist activity. *Biochem. Pharmacol.* **83**, 952-961 (2012).

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