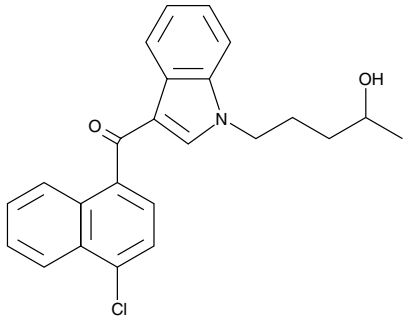
Product Information

JWH 398 N-(4-hydroxypentyl) metabolite

Item No. 10943

CAS Registry No.: 1537889-06-7
Formal Name: (4-chloronaphthalen-1-yl)(1-(4-hydroxypentyl)-1H-indol-3-yl)methanone
MF: $C_{24}H_{22}ClNO_2$
FW: 391.9
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methanol
UV/Vis.: λ_{max}: 218, 317 nm



Laboratory Procedures

For long term storage, we suggest that JWH 398 N-(4-hydroxypentyl) metabolite be stored as supplied at -20°C. It should be stable for at least one year.

JWH 398 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of JWH 398 N-(4-hydroxypentyl) metabolite in these solvents is approximately 15, 25, and 20 mg/ml, respectively.

JWH 398 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.

JWH 398 (Item No. 13636) is a synthetic cannabinoid (CB) that activates both central CB_1 and peripheral CB_2 receptors (K_i = 2.3 and 2.8 nM, respectively).[1] It has been reported to be an adulterant of herbal products.[2,3] JWH 398 N-(4-hydroxypentyl) metabolite is an expected phase I metabolite of JWH 398, detectable in serum and urine. While similar hydroxylated phase I metabolites of synthetic CBs retain activity, the physiological properties of this compound have yet to be determined.[4,5] This product is intended for research and forensic applications.

References

1. Huffman, J.W. The Cannabinoid Receptors. Humana, New York (2009).
2. Kikura-Hanajiri, R., Uchiyama, N., and Goda, Y. Survey of current trends in the abuse of psychotropic substances and plants in Japan. *Leg. Med. (Tokyo)* **13(3)**, 109-15 (2011).
3. Dresen, S., Ferreirós, N., Pütz, M., *et al.* Monitoring of herbal mixtures potentially containing synthetic cannabinoids as psychoactive compounds. *J. Mass Spectrom.* **45(10)**, 1186-94 (2010).
4. 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).
5. Brents, L.K., Gallus-Zawala, A., Radominska-Pandya, A., *et al.* Monohydroxylated metabolites of the K2 synthetic cannabinoid JWH-073 retain intermediate to high cannabinoid 1 receptor (CB1R) affinity and exhibit neutral antagonist to partial agonist activity. *Biochem. Pharmacol.* **83**, 952-961 (2012).

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