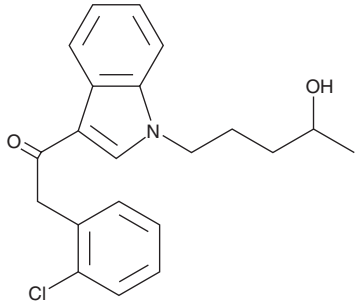
PRODUCT INFORMATION

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%
UV/Vis.: λ_{max}: 212, 246, 305 nm
Supplied as: A 10 mg/ml solution in methanol
Storage: -20°C
Stability: ≥4 years



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

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 (Item No. 14227) 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(18)**, 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(7)**, 952-961 (2012).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM