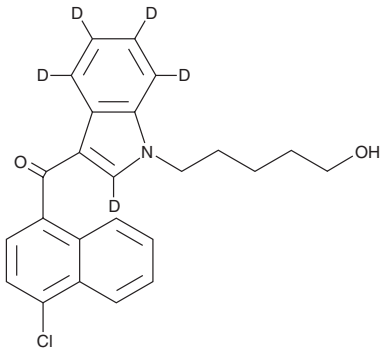
PRODUCT INFORMATION

JWH 398 N-(5-hydroxypentyl) metabolite-d_5

Item No. 14371

CAS Registry No.:	2748469-33-0
Formal Name:	(4-chloronaphthalen-1-yl)(1-(5-hydroxypentyl)-1H-indol-3-yl-2,4,5,6,7-d_5)methanone
MF:	$C_{24}H_{17}ClD_5NO_2$
FW:	396.9
Chemical Purity:	≥98% (JWH 398 N-(5-hydroxypentyl) metabolite)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤1% d_0
UV/Vis.:	λ_{max}: 221, 311, 417 nm
Supplied as:	A 1 mg/ml solution in acetonitrile
Storage:	-20°C
Stability:	≥4 years



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

Description

JWH 398 N-(5-hydroxypentyl) metabolite-d_5 (Item No. 14371) is intended for use as an internal standard for the quantification of JWH 398 N-(5-hydroxypentyl) metabolite (Item No. 9000770) 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 398 is a synthetic cannabinoid (CB) that activates both CB_1 and 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-(5-hydroxypentyl) metabolite is a potential metabolite of JWH 398. Metabolism of structurally similar compounds leads to monohydroxylation of the N-alkyl chain, detectable in urine.[4]

References

1. Huffman, J.W. Cannabimimetic indoles, pyrroles, and indenes: Structure-activity relationships and receptor interactions. *The cannabinoid receptors*. Reggio, P.H., editor, *Humana* (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. Sobolevsky, T., Prasolov, I., and Rodchenkov, G. Detection of JWH-018 metabolites in smoking mixture post-administration urine. *Forensic Sci. Int.* **200(1-3)**, 141-147 (2010).

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