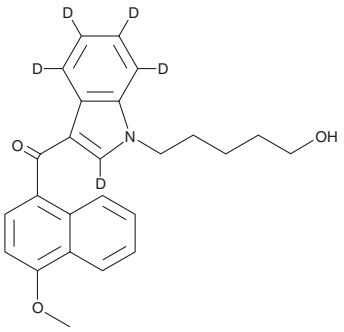
PRODUCT INFORMATION

JWH 081 N-(5-hydroxypentyl) metabolite-d_5

Item No. 14361

CAS Registry No.: 2748469-56-7
Formal Name: (1-(5-hydroxypentyl)-1H-indol-3-yl-2,4,5,6,7-d_5)(4-methoxynaphthalen-1-yl)methanone
MF: $C_{25}H_{20}D_5NO_3$
FW: 392.5
Chemical Purity: ≥98% (JWH 081 N-(5-hydroxypentyl) metabolite)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_5); ≤1% d_0
UV/Vis.: λ_{max}: 213, 314 nm
Supplied as: A 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 081 N-(5-hydroxypentyl) metabolite-d_5 (Item No. 14361) is intended for use as an internal standard for the quantification of JWH 081 N-(5-hydroxypentyl) metabolite (Item No. 9000768) 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).

Cannabimimetic indoles, including certain "JWH" compounds, have been identified in herbal blends.[1] Hydroxylated and glucuronidated metabolites of two closely-related compounds, JWH 015 (Item No. 10009018) and JWH 018 (Item No. 10900), have been identified from *in vitro* liver microsomal metabolism and from urine, respectively.[2-4] JWH 081 (Item No. 10579) is a cannabimimetic indole that is structurally- and functionally-related to JWH 015 and JWH 018. JWH 081 N-(5-hydroxypentyl) metabolite is expected to be a metabolite of JWH 081 that would be detectable both in serum and in urine. This product is intended for research and forensic applications.

References

1. Uchiyama, N., Kikura-Hanajiri, R., Kawahara, N., *et al.* Identification of a cannabimimetic indole as a designer drug in a herbal product. *Forensic Toxicol.* **27(2)**, 61-66 (2009).
2. Zhang, Q., Ma, P., Cole, R.B., *et al.* Identification of in vitro metabolites of JWH-015, an aminoalkylindole agonist for the peripheral cannabinoid receptor (CB_2) by HPLC-MS/MS. *Anal. Bioanal. Chem.* **386(5)**, 1345-1355 (2006).
3. 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).
4. Moran, C.L., Le, V.H., Chimalakonda, K.C., *et al.* Quantitative measurement of JWH-018 and JWH-073 metabolites excreted in human urine. *Anal. Chem.* **83(11)**, 4228-4236 (2011).

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