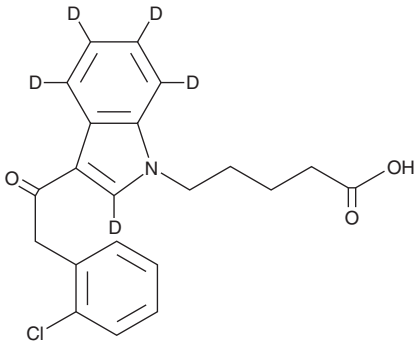
PRODUCT INFORMATION

JWH 203 N-pentanoic acid metabolite-d_5

Item No. 14369

CAS Registry No.:	2749328-26-3
Formal Name:	5-(3-(2-(2-chlorophenyl)acetyl)-1H-indol-1-yl-2,4,5,6,7-d_5)pentanoic acid
MF:	$C_{21}H_{15}D_5ClNO_3$
FW:	374.9
Chemical Purity:	≥98% (JWH 203 N-pentanoic acid metabolite)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_x); ≤1% d_0
UV/Vis.:	λ_{max}: 214, 243, 300 nm
Supplied as:	A solution in acetonitrile
Storage:	-20°C
Stability:	≥1 year



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

Description

JWH 203 N-pentanoic acid metabolite-d_5 (Item No. 14369) is intended for use as an internal standard for the quantification of JWH 203 N-pentanoic acid metabolite (Item No. 14229) 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 203 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) 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 CB 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-(5-hydroxypentyl) metabolite is expected to be a metabolite of JWH 203 that would be detectable both in serum and in urine. JWH 203 (Item No. 9000736) is a synthetic cannabinoid (CB) that displays high affinities for both the central CB_1 receptor (K_i = 8.0 nM) and the peripheral CB_2 receptor (K_i = 7.0 nM).[1] JWH 203 N-pentanoic acid metabolite is an expected metabolite of JWH 203, based on the metabolism of similar compounds.[2] The physiological and toxicological properties of this compound have not been characterized. This product is intended for forensic and research purposes.

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. 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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