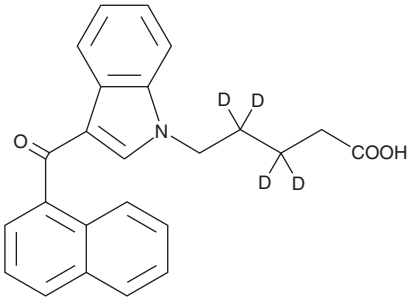
PRODUCT INFORMATION

JWH 018 N-pentanoic acid metabolite-d_4

Item No. 9000867

CAS Registry No.:	1320363-49-2
Formal Name:	3-(1-naphthalenylcarbonyl)-1H-Indole-1-pentanoic-β,β,γ,γ-d_4 acid
MF:	$C_{24}H_{17}D_4NO_3$
FW:	375.5
Chemical Purity:	≥98% (JWH 018 N-pentanoic acid metabolite)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
UV/Vis.:	λ_{max}: 219, 247, 316 nm
Supplied as:	A 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 018 N-pentanoic acid metabolite-d_4 (Item No. 9000867) is intended for use as an internal standard for the quantification of JWH 018 N-pentanoic acid metabolite (Item No. 9000856) 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 018 is a mildly selective agonist of the peripheral cannabinoid (CB_2) receptor, derived from the aminoalkylindole WIN 55,212-2. The K_i values for binding central cannabinoid (CB_1) and CB_2 receptors are 9.0 and 2.94 nM, respectively, for a CB_1:CB_2 ratio of 3.06.[1] JWH 018 is one of several synthetic CBs which have been included in smoking mixtures. JWH 018 N-pentanoic acid metabolite is a minor urinary metabolite of JWH 018, characterized by carboxylation of the N-alkyl chain.[2] In urine samples, this metabolite is almost completely glucuronidated.[2] This product is intended for research and forensic applications.

References

1. Aung, M.M., Griffin, G., Huffman, J.W., *et al.* Influence of the N-1 alkyl chain length of cannabimimetic indoles upon CB_1 and CB_2 receptor binding. *Drug Alcohol Depend.* **60(2)**, 133-140 (2000).
2. 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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