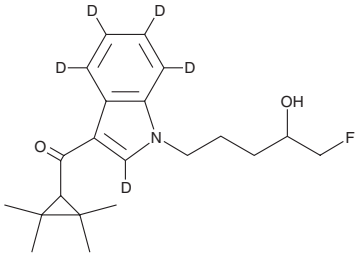
PRODUCT INFORMATION

XLR11 N-(4-hydroxypentyl) metabolite-d_5

Item No. 14377

Formal Name: (1-(5-fluoro-4-hydroxypentyl)-1H-indol-3-yl)(2,2,3,3-tetramethylcyclopropyl)methanone-2,4,5,6,7-d_5
MF: $C_{21}H_{23}D_5FNO_2$
FW: 350.5
Purity: ≥98%
Supplied as: A neat oil
Storage: -20°C



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

Description

XLR11 N-(4-hydroxypentyl) metabolite-d_5 RM contains five deuterium atoms at the 2, 4, 5, 6, and 7 positions. It is intended for use as an internal standard for the quantification of XLR11 N-(4-hydroxypentyl) metabolite by GC- or LC-mass spectrometry. XLR11 (Item No. 11565) is a synthetic cannabinoid (CB) featuring a tetramethylcyclopropyl group, which reportedly confers selectivity for the peripheral CB_2 receptor over the central CB_1 receptor.[1] XLR11 also has an N-(5-fluoropentyl) chain, which increases binding to both CB receptors.[2] XLR11 N-(4-hydroxypentyl) metabolite is an expected phase 1 metabolite of XLR11, based on the known metabolism of similar compounds.[3,4] The physiological properties of this compound have not been evaluated. This product is intended for forensic and research applications.

This product is qualified as a Reference Material that has been manufactured and tested to ISO/IEC 17025 and ISO 17034 international standards.

References

1. Frost, J.M., Dart, M.J., Tietje, K.R., *et al*. Indol-3-ylcycloalkyl ketones: Effects of N1 substituted indole side chain variations on CB_2 cannabinoid receptor activity. *J. Med. Chem.* **53**, 295-315 (2010).
2. Makriyannis, A. and Deng, H. Cannabimimetic indole derivatives. WO 01/28557 A1 (2001), 1-25, PCT/US00/28832.
3. 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**, 1345-1355 (2006).
4. Wintermeyer, A., Möller, I., Thevis, M., *et al*. *In vitro* phase I metabolism of the synthetic cannabimimetic JWH-018. *Anal. Bioanal. Chem.* **398**, 2141-53 (2010).

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