

Product Data Sheet

Product Name: 5-Fluoropentylindole

Cat. No.: GC40502

Chemical Properties

Cas. No. 1859218-30-6

SMILES FCCCCCN1C=CC2=CC=CC=C21

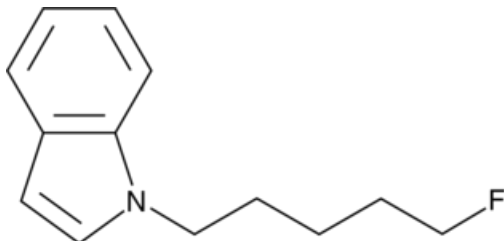
Formula C13H16FN M.Wt 205.3

Solubility DMF: 25 mg/ml, DMSO: 25 mg/ml, Ethanol: 25 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.3 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

A wide variety of aminoalkylindole analogs are potent synthetic cannabinoids (CBs), including many of the JWH compounds.[1] An alkyl chain of five carbons in length produces compounds with high affinity for both the central CB1 and the peripheral CB2 receptors.[2] The addition of a terminal fluorine to the pentyl chain can further increase affinity for both CB receptors.[3] 5-Fluoropentylindole is the base structure for a variety of synthetic CBs. A range of structures are commonly added to this base via a ketone linkage at the three position of the indole. The physiological and toxicological properties of this compound have not been evaluated. This product is intended for forensic and research applications.

Caution: Product has not been fully validated for medical applications. For research use only.

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Reference:

- [1]. Wiley, J.L., Compton, D.R., Dai, D., et al. Structure-activity relationships of indole- and pyrrole-derived cannabinoids. *Journal of Pharmacology and Experimental Therapeutics* 285(3), 995-1004 (1998).
- [2]. Aung, M.M., Griffin, G., Huffman, J.W., et al. Influence of the N-1 alkyl chain length of cannabimimetic indoles upon CB1 and CB2 receptor binding. *Drug Alcohol Depend.* 60(2), 133-140 (2000).
- [3]. Makriyannis, A., and Deng, H. Cannabimimetic indole derivatives. PCT/US00/28832, (2001).

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