ANALYTICAL REPORT

FUB-JWH 018 (C26H18FNO)

(1-(4-fluorobenzyl)-1H-indol-3-yl)(naphthalen-1-yl)methanone

Remark – other active cpd. detected: none

Sample ID: 1370-15
Sample description: crystalinic - white
Sample type: RM-reference material
Comments: Cayman Lot#0465398; NFL- purchasing
Date of entry: 11/18/2015

Substance identified- structure (base form)

Systematic name: (1-(4-fluorobenzyl)-1H-indol-3-yl)(naphthalen-1-yl)methanone

Other names:

Formula (per base form) C26H18FNO
Mw (g/mol) 379.4
Salt form: base
StdInChiKey VREQTLWJHFQLEX-UHFFFAOYSA-N

Compound Class Cannabinoids
Other active cpd. detected none
Add.info (purity..) 98%

1 This report has been produced with the financial support of the Prevention of and Fight against Crime Programme of the European Union (grant agreement number JUST/2013/ISEC/DRUGS/AG/6413). The contents of this report are the sole responsibility of the National Forensic Laboratory and can in no way be taken to reflect the views of the European Commission.

2 Created by OPSIN free tool: http://opsin.ch.cam.ac.uk/ DOI: 10.1021/ci100384d
Report updates

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<thead>
<tr>
<th>date</th>
<th>comments (explanation)</th>
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Supporting information

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<th>Analytical technique:</th>
<th>applied</th>
<th>remarks</th>
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| GC-MS (EI ionization) | +       | NFL GC-RT (min): 17.31  
BP(1): 109; BP(2): 379, BP(3): 270,  
FTIR-ATR |
| FTIR-ATR              | +       | direct measurement |
| GC-IR (condensed phase)| +       |                     |

**GC-MS (Agilent):**
- GC-method is RT locked to tetracosane (RT=9.53 min).
- Injection volume 1 ml and split mode (1:50).
- Injector temperature: 280 °C.
- Chromatographic separation
- Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 mm.
- Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 293 °C at a rate of 18 °C/min, hold for 6.1 min, than heating at 50 °C/min up to 325 °C and finally 2.8 min isothermal.
- MSD source EI = 70 eV. GC-MS transfer line T = 235°C, source and quadropole temperatures 280°C and 180°C, respectively. Scan range m/z scan range: from 50 (40) to 550 amu.

**FTIR-ATR (Perkin Elmer):** scan range 4000-400 cm⁻¹; resolution 4cm⁻¹

**GC-(MS)-IR** condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny) IR scan range 4000 to 7000, resolution 4cm⁻¹

**GC-method:**
- Injection volume 1 ml and split mode (1:5) .
- Injector temperature: 280 °C.
- Chromatographic separation
- Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 mm.
- Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 293 °C at a rate of 18 °C/min, hold for 6.1 min, than heating at 50 °C/min up to 325 °C and finally 2.8 min isothermal.
- Split MS : IR : (1:9)
- MSD source EI = 70 eV. GC-MS transfer line T = 235°C, source and quadropole temperatures 280°C and 180°C, respectively. Scan range m/z scan range: from 50 (40) to 550 amu.
- IR (condensed phase): IR scan range 4000 to 700, resolution 4cm⁻¹
FIGURES OF SPECTRA

MS (EI)

Abundance

Approximate of 17.250 to 17.304 min.; FUJ-JWH-018_1370-15_CAY.D\data.ms