ANALYTICAL REPORT

JWH-307 (C26H24FNO)

2-(2-fluorophenyl)-4-(naphthalene-1-carbonyl)-1-pentyl-1H-pyrrole

Remark – other active cpd. detected: none

Sample ID: 1493-16
Sample description: powder - white
Sample type: RM-reference material
Comments: Cayman Lot#0448903-12; I-SEE - purchasing
Date of entry: 2/19/2016

Systematic name: 2-(2-fluorophenyl)-4-(naphthalene-1-carbonyl)-1-pentyl-1H-pyrrole
Other names: [5-(2-fluorophenyl)-1-pentyl-1H-pyrrol-3-yl]-1-naphthalenyl-methanone
Formula (per base form) C26H24FNO
M_w (g/mol) 385.48
Salt form: base
StdInChIKey WYNZPDDTQGVCLZ-UHFFFAOYSA-N
Compound Class Cannabinoids
Other active cpd. detected none
Add.info (purity..) ≥96%

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/6426). 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

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

<table>
<thead>
<tr>
<th>Analytical technique</th>
<th>applied</th>
<th>remarks</th>
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<tbody>
<tr>
<td>GC-MS (EI ionization)</td>
<td>+</td>
<td>NFL GC-RT (min): 15.58 BP(1): 385; BP(2): 155, BP(3): 127,</td>
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<td>FTIR-ATR</td>
<td>+</td>
<td>direct measurement</td>
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<td>GC-IR (condensed phase)</td>
<td>-</td>
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**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 thickens 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 (30 until 6 min) to 550 (300) 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 700, 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 thickens 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 (30 until 6 min) to 550 (300) amu.
IR (condensed phase): IR scan range 4000 to 700, resolution 4cm-1
FIGURES OF SPECTRA

MS (EI)

Abundance

![MS spectrum graph](image)

Scan 2332 (15.584 min); JWH-307_1493-16_CAY.D\data.ms

FTIR-ATR

![FTIR spectrum graph](image)