# ANALYTICAL REPORT

**5F-ADBICA (C20H28FN3O2)**

**N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(5-fluoropentyl)-1H-indole-3-carboxamide**

**Remark** – other active cpd. detected: none

<table>
<thead>
<tr>
<th>Sample ID:</th>
<th>1417-15</th>
</tr>
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<tbody>
<tr>
<td>Sample description:</td>
<td>crystalinic - white</td>
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<tr>
<td>Sample type:</td>
<td>RM-reference material</td>
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<tr>
<td>Comments¹:</td>
<td>Chiron AS Lot#15389; NFL- purchasing</td>
</tr>
<tr>
<td>Date of entry:</td>
<td>1/5/2016</td>
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**Substance identified-structure² (base form)**

![Structure Diagram]

**Systematic name:**  
N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(5-fluoropentyl)-1H-indole-3-carboxamide

**Other names:**

**Formula (per base form):** C20H28FN3O2

**Mᵣ (g/mol):** 361.45

**Salt form:** base

**StdInChIKey:** ITZSOCZDFSHNCL-UHFFFAOYSA-N

**Compound Class:** Cannabinoids

**Other active cpd. detected:** none

**Add.info (purity..):** 98.20%

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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/](http://opsin.ch.cam.ac.uk/)  DOI: 10.1021/ci100384d
Report updates

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

<table>
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<th>Analytical technique</th>
<th>applied</th>
<th>remarks</th>
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</table>
| GC-MS (EI ionization)| +       |NFL GC-RT (min): 13.49  
BP(1): 232; BP(2): 144, BP(3): 233, |
| 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 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 (40) to 550 amu.

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

**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
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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
FTIR-ATR

IR-Condensed phase