ANALYTICAL REPORT

ADBICA (C20H29N3O2)

N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-pentyl-1H-indole-3-carboxamide

Remark – other active cpd. detected: none

| Sample ID:       | 1418-15         |
| Sample description: | powder - white |
| Sample type:     | RM-reference material |
| Comments¹:       | Chiron AS Lot#15804; NFL- purchasing |
| Date of entry:   | 1/6/2016        |

Substance identified-structure² (base form)

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

Other names:

Formula (per base form) C20H29N3O2

M_w (g/mol) 343.46

Salt form: base

StdInChIKey IXUYMXAKKYWKRG-UHFFFAOYSA-N

Compound Class Cannabinoids

Other active cpd. detected none

Add.info (purity..) 98.40%

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

<table>
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<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 (El ionization) | +       | NFL GC-RT (min): 12.56  
BP(1): 214; BP(2): 144, BP(3): 215, |
| 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 El = 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 4 cm-1

**GC- (MS)-IR** condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny)
- IR scan range 4000 to 700,
- resolution 4 cm-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 El = 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 4 cm-1
FIGURES OF SPECTRA

MS (El)

Abundance

Scan 2403 (12.557 mn): ADBICA 1418-15\_CH1.D\_data.ms

m/z→
FTIR-ATR

IR-Condensed phase

NOTE: This is condensed phase IR (as base form of substance).

Source: Mass Spec GC/MS