ANALYTICAL REPORT

4-hydroxy DiPT (C16H24N2O)

3-\{2-\{bis(propan-2-yl)amino\}ethyl\}-1H-indol-4-ol

Remark – other active cpd. detected: none

Sample ID: 1471-16
Sample description: powder - brown
Sample type: RM-reference material
Comments¹: Cayman Lot#0439953-18; I-SEE - purchasing
Date of entry: 2/19/2016

Substance identified-structure² (base form)

Systematic name: 3-\{2-\{bis(propan-2-yl)amino\}ethyl\}-1H-indol-4-ol
Other names: 4-OH DiPT, 4-Hydroxy-N,N-diisopropyltryptamine
Formula (per base form) C16H24N2O
M_w (g/mol) 260.38
Salt form: HCl
StdInChIKey KBRYKXCBGJXQV-UHFFFAOYSA-N
Compound Class Indolalkylamines (fe tryptamines)
Other active cpd. detected none
Add.info (purity..) ≥95%

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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<tbody>
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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): 8.75 BP(1): 114; BP(2): 72, BP(3): 146,</td>
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<tr>
<td>FTIR-ATR</td>
<td>+</td>
<td>direct measurement</td>
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<tr>
<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

Scan 1737 (8.746 min): 4-hydroxy DiPT-HCl

m/z →

120000 110000 100000 90000 80000 70000 60000 50000 40000 30000 20000 10000

114,1 72,1 146,1 174,0 207,0 260,2 261,1 340,8