ANALYTICAL REPORT

2C-T-2-NBO Me (C20H27NO3S)

{2-[4-(ethylsulfanyl)-2,5-dimethoxyphenyl]ethyl}[(2-methoxyphenyl)methyl]amine

Remark – other active cpd. detected: none

<table>
<thead>
<tr>
<th>Sample ID:</th>
<th>1334-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample description:</td>
<td>crystalinic - white</td>
</tr>
<tr>
<td>Sample type:</td>
<td>RM-reference material</td>
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<tr>
<td>Comments¹:</td>
<td>Lipomed Lot#1565.1B1.1; RESPONSE - purchasing</td>
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<tr>
<td>Date of entry:</td>
<td>3/8/2016</td>
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**Substance identified-structure² (base form)**

![Chemical Structure]

**Systematic name:** {2-[4-(ethylsulfanyl)-2,5-dimethoxyphenyl]ethyl}[(2-methoxyphenyl)methyl]amine

**Other names:**
- 2ST2-NB2OMe
- 2-(2,5-Dimethoxy-4-ethylthiophenyl)-N-[(2-methoxyphenyl)methyl]ethanamine

**Formula (per base form):** C20H27NO3S

**Mₚ (g/mol):** 361.5

**Salt form:** HCl

**StdInChIKey:** OZEBFZPAWCGXEGK-UHFFFAOYSA-N

**Compound Class:** Phenethylamines

**Other active cpd. detected:** none

**Add.info (purity..):** >98.5 % (as HCl)

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>
<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): 11.36</td>
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<td></td>
<td></td>
<td>BP(1): 121; BP(2): 150, BP(3): 91,</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>
<td></td>
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</tbody>
</table>

**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 2193 (11.355 min): 2C-T-2-NBOMe-HCl_1334-1S_LIP.D\data.ms

m/z→

MS (EI)-TFA derivative

Abundance

Scan 2271 (11.802 min): 2C-T-2-NBOMe-HCl_1334-16_LIP-TFAder.D\data.ms

m/z→

Stran 3 od 4

ID 1334-16