

## FACT SHEET

### 25I-NBOMe

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FOR MORE INFORMATION, PLEASE CONTACT:

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## A. GENERAL INFORMATION

### CREATED

June 2012

### UPDATED

Novmeber 2013

### TYPE

Psychotropic substances

### GROUP

Phenethylamines

### NAME

25I-NBOMe

### NATURE OF SUBSTANCE

25I-NBOMe is a derivative of the phenethylamine hallucinogen 2C-I. 25I-NBOMe acts as a highly potent agonist for the human 5-HT<sub>2A</sub> receptor, with a K<sub>i</sub> of 0.044 nM.

### SYSTEMATIC CHEMICAL NAME

4-iodo-2,5-dimethoxy-N-(2-methoxybenzyl)phenethylamine

### OTHER NAMES

NBOMe-2C-I, BOM-CI, Cimbi-5, Solaris

## B. ALERTS

### ALERTS

#### 3 intoxications in Belgium associated with 25I-NBOMe, updated 29 August 2013

The BEWSD was informed in the beginning of August by dr. K. Anseeuw (Ziekenhuis Netwerk Antwerpen (ZNA) Stuivenberg), the toxicological laboratory of prof. Dr. H. Neels (ZNA Antwerpen, Antwerp University) and the Toxicological Centre (Antwerp University, dr. K. Maudens) of at least **three** intoxications with **25I-NBOMe**. Blotters were found on the patient, pictures can be found in attachment. On the back side of the blotters found with the patients was printed "25-I".

Two of the intoxications happened at a private "drug party" in Antwerp, Belgium, where the drug blotters were found. Clinical symptoms in both victims were lowered consciousness, insufficient breathing, mydriasis, tachycardia (100/min), and a negative tox screen for other drugs. The patients were sedated, intubated and artificially ventilated.

A third patient admitted himself spontaneously at the Emergency department. After the use of 25I-NBOMe, he developed a sudden headache, lessened strength in the 4 extremities, mydriasis, tachycardia (90/min), hypertension (150/85). Symptoms disappeared after being under observation for a couple of hours. The patient admitted of having used 25I-NBOMe before in the past. Treatment of an intoxication with 25I-NBOMe can be mainly symptomatic, a specific antidote is not available. In severe cases aggressive sedation with intubation can be necessary.

25I-NBOMe on 'blotters' sold as LSD, Austria, 4 April 2013.

On April 4<sup>th</sup>, the EMCDDA Early Warning System issued an alert concerning the sale of 25I-NBOMe in the form of LSD blotters; the tabs in question depict the "Albert Hoffman Bicycle Day", and are known on the street as "Hoffmans".

The Austrian NFP has reported that on 28 March 2013, the new psychoactive substance 25I-NBOMe, was detected in a sample of 'blotters' collected at a free techno party with drug testing. The design on the 'blotters' is associated with LSD and the 'blotters' were reportedly being sold at the event as LSD.

Pictures are available below.

Severe toxicity in the UK, 7 March 2013.

On 7 March 2013 the UK Focal Point provided further information that one of the patients intravenously injected a liquid form of the drug. He bought this from a dealer in liquid form. The remaining 6 patients bought the drug from the Internet and it came as powder inside capsules. Some swallowed the capsules, while others broke them open and snorted the powder.

On 28 February 2013 the United Kingdom National Focal Point has reported the detection of the new psychoactive substance 25I-NBOMe linked to a series of 7 non-fatal intoxication cases from January 2013.

Clinically observed features included tachycardia (n=7), hypertension (n=4), agitation and aggression (n=6), visual and auditory hallucinations (n=6), seizures (n=2), hyperpyrexia (n=3), clonus (n=2), elevated white cell count (n=2) and metabolic acidosis (n=3). Two patients required admission to intensive care. 1 patient had severe rhabdomyolysis leading to renal failure, and all of the cases has elevated creatine kinase of various degree. Routes of administration were snorting (4), oral (1) and intravenous (1).

LC-MS-MS analysis was performed at the Medical Toxicology Centre, Newcastle University, with 25I-NBOMe identified as the main active substance in the plasma and urine in all 7 cases.

Several cases have also been reported in the USA and Australia (<http://www.tnp.sg/content/teens-rushed-hospital-after-getting-high-psy-acid>).

## REPORTS TO EMCDDA

**Belgium:** On 08/11/2013, the Medicines laboratory of the WIV-ISP reported the analysis of a blotter containing 25I-NBOMe.

**Belgium:** We have been notified by the Belgian National Focal Point of a case of intoxication associated with 25I-NBOMe consumed in a 'home drug party' setting. They report: "3 persons were admitted to the hospital, having consumed 25I-NBOMe (described as "synthetic LSD"). Peripheral anoxia was present in the extremities, victims were sedated and intubated. Very large mydriatic pupils, responsive to light. HR 90, BP 115/60, sats 96, Glasgow Coma Scale 3/15." [GCS 3 indicates no motor response, no verbal response and no eye opening response.] "Currently, a pharmacokinetic study is being performed on the collected blood samples."

**Belgium:** Seizure of 100 grams of powder by the Belgian Customs department, february 2013.

**Austria:** On 2 April 2013 the Austrian NFP reported 3 blotters sold as LSD collected on 08/03/13 by checkit! at a Free Techno Party (with Drug Checking) in Vienna.

**Italy:** On 13 March 2013 the Italian NFP reported a seizure of 8 blotters of green color on a side and dark brownish on the other seized in January 2013 by the State Police of Bologna.

**United Kingdom:** On 28 February 2013 the United Kingdom National Focal Point has reported the detection of the new psychoactive substance 25I-NBOMe linked to a series of 7 non-fatal intoxication cases from January 2013. 7 patients, all young adult males, presented to hospitals in the north east of England with clinical toxicity after recreational drug use in January 2013.

**Spain:** On 1 February 2013 the NFP reported a collected sample of 3 stamps collected on 25/01/2013 by Energy Control. The sample were from Barcelona (1); Vizcaya (1); France (not specified location).

**Norway:** On 24 January 2013 the Norwegian NFP reported a seizure of 250 squares of paper seized on 23 March 2012 by the police at Stavanger, Norway. Found in mail (envelope) from Omaha, Nebraska, USA.

**Slovenia:** On 20 December 2012 the NFP reported a seizure of 0.2ml of a colourless liquid by police on 8 April 2012 in Ljubljana. The powder was identified by the National Forensic Laboratory.

**Germany:** On 6 December 2012 the German NFP reported a seizure of 150 perforated paper square 'trips' with a Rolling Stones logo, seized on 19 September 2012, by German Police in Hamburg.

**France:** On 19 November 2012 the French NFP reported a seizure of 2g white powder seized on 20/07/2012 by the Customs at Roissy airport, Paris in a package from China to France.

**Finland:** On 10 July 2012 the NFP reported a seizure of 1,0g white powder seized on 20/06/2012 by the Finnish Customs at Incoming mail from China.

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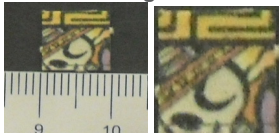
**Poland:** On 6 July 2012 the NFP reported a seizure of 5,4g powder seized on 20/05/2012 by the Customs Services at Warsaw.

**Hungary:** On 25 June 2012 the NFP reported a seizure of 12,73g powder seized in March 2012 by the Police at Budapest.

**Sweden:** On 21 June 2012 the NFP reported a seizure of 7 green blotted paper, no fluorescent seen in UV light seized on 31/05/2012 by the Swedish police at Borlänge. The substance was identified by the National Laboratory of Forensic Science (SKL) using GC-MS.

### C. PICTURES

From the Belgian intoxications, August 2013



Blotter tested in Austria, April 2013



Seizure of powder, Poland, July 2012



Blotter paper seized in March 2012 at Stavanger, Norway



## D. CLINICAL INFORMATION

### USAGE

#### MODES AND SCOPE OF THE ESTABLISHED OR EXPECTED USE

Anecdotal user reports on internet fora describe the psychoactive effects of the 25X-NBOMe-series as intermediate between LSD and the 2C-X phenethylamine series. Especially 25I-NBOMe seems to appeal to users of psychedelics, and has been sold as a substitution for LSD. It is mostly distributed on paper blotters. Common dosages reported are in the 0.5 – 1 mg range.

### HEALTH RISKS

Comparable to LSD. Anxiety and psychotic episodes are a possibility. As with LSD, treatment is supportive and symptomatic.

Clinical symptoms of the intoxications in Belgium:

“3 persons were admitted to the hospital, having consumed 25I-NBOMe (described as “synthetic LSD”). Peripheral anoxia was present in the extremities, victims were sedated and intubated. Very large mydriatic pupils, responsive to light. HR 90, BP 115/60, sats 96, Glasgow Coma Scale 3/15.”

## E. LEGAL STATUS

Controlled

## F. REFERENCES

Ettrup A. et al., Radiosynthesis and in vivo evaluation of a series of substituted C-phenethylamines as 5-HT<sub>2A</sub> agonist PET tracers, Eur J Nucl Med Mol Imaging (2010) DOI 10.1007/s00259-010-1686-8  
Ettrup\_2010.pdf

Nichols D. E. et al., High specific activity tritium-labeled N-(2-methoxybenzyl)-2,5-dimethoxy-4-iodophenethylamine (INBMeO): A high-affinity 5-HT<sub>2A</sub> receptor-selective agonist radioligand, Bioorganic & Medicinal Chemistry 16 (2008) 6116–6123  
Nichols\_2008.pdf

Death and overdoses blamed on emerging drugs, ABC News, 12 September 2012  
<http://www.abc.net.au/news/2012-09-12/death-and-overdoses-blamed-on-emerging-drugs/4257146>

## G. CHEMISTRY

### SYSTEMATIC CHEMICAL NAME

4-iodo-2,5-dimethoxy-N-(2-methoxybenzyl)phenethylamine

### OTHER NAMES

NBOMe-2C-I, BOM-CI, Cimbi-5, Solaris

### OTHER CHEMICAL NAMES AND VARIANTS

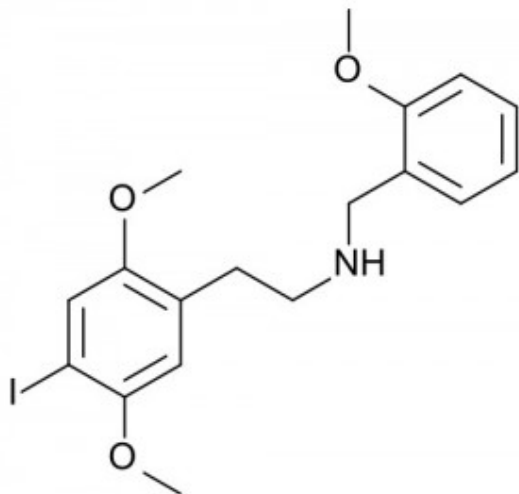
4-iodo-2,5-dimethoxy-N-[(2-methoxyphenyl)methyl]-benzeneethanamine  
2-(4-iodo-2,5-dimethoxyphenyl)-N-[(2-methoxyphenyl)methyl]ethanamine

### CHEMICAL ABSTRACTS SERVICE (CAS) REGISTRY NUMBER

919797-19-6

## MOLECULAR INFORMATION

Molecular structure:



Molecular formula: C<sub>18</sub>H<sub>22</sub>INO<sub>3</sub>

Molecular weight: 427.277 g/mol

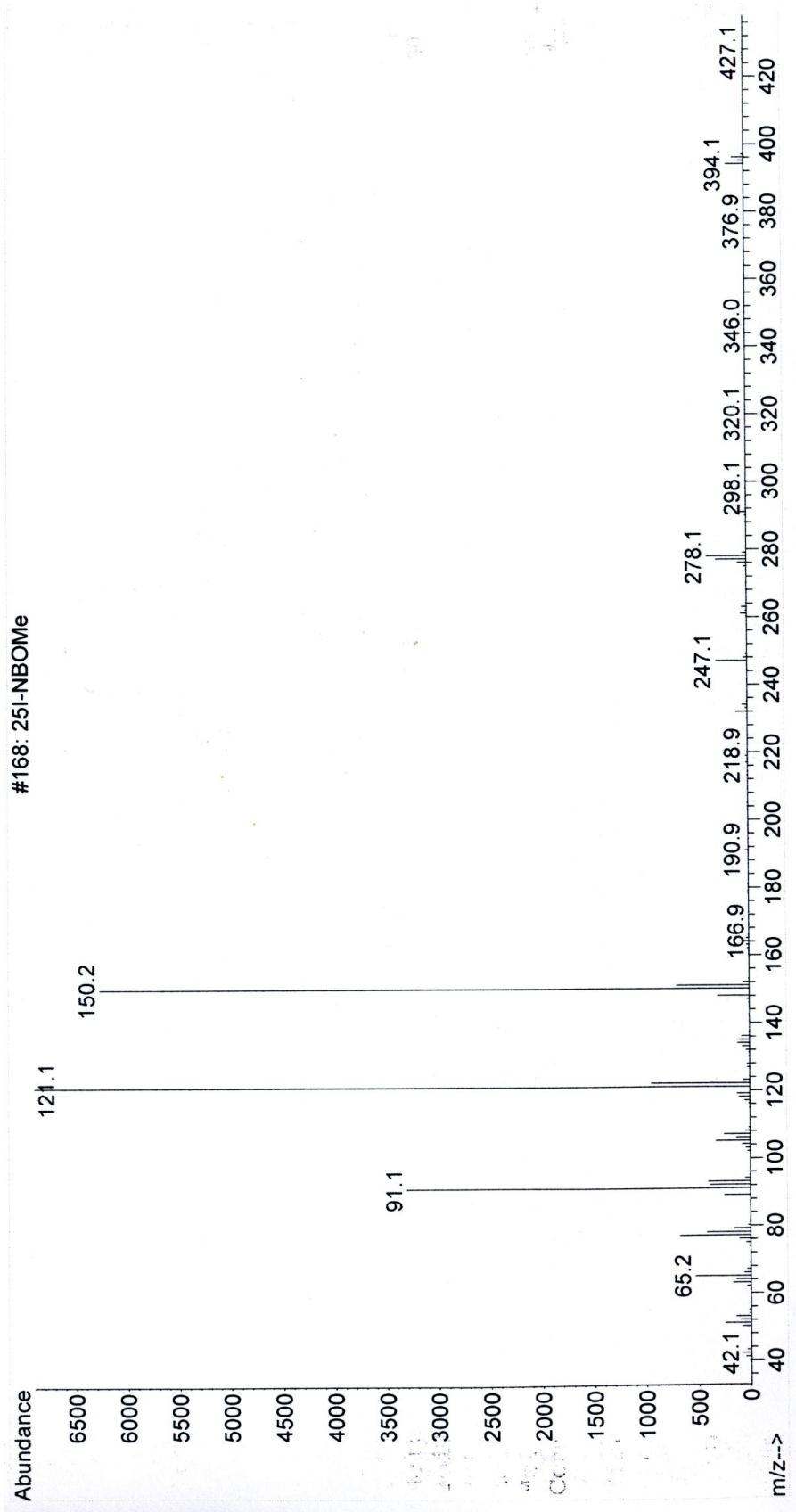
Identification and analytical profile can be found at the end of this document.

[ES\\_25I-NBOMe.jpg](#)

Kindly provided by Energy Control, Spain

[25I-NBOMe\\_PL.pdf](#)

Kindly provided by the Polish NFP





File : Z:\EC\25I-NBOMe\6601011.D  
Operator :  
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Instrument : Instrumen  
Sample Name: 3106  
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