

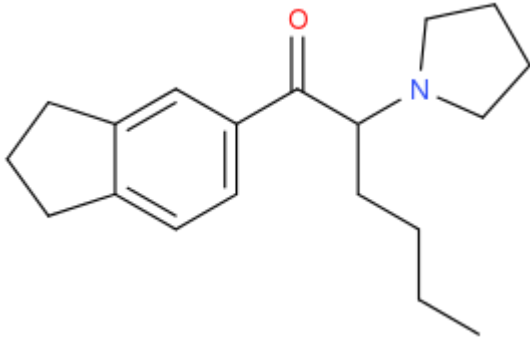
ANALYTICAL REPORT

5-BPDi, (C₁₉H₂₇NO)

1-(2,3-dihydro-1H-inden-5-yl)-2-(pyrrolidin-1-yl)hexan-1-one

Remark – other NPS detected: **none**

Sample ID:	1183-15
Sample description:	powder - off white
Sample type:	P- purchased
Date of entry:	7/11/2015

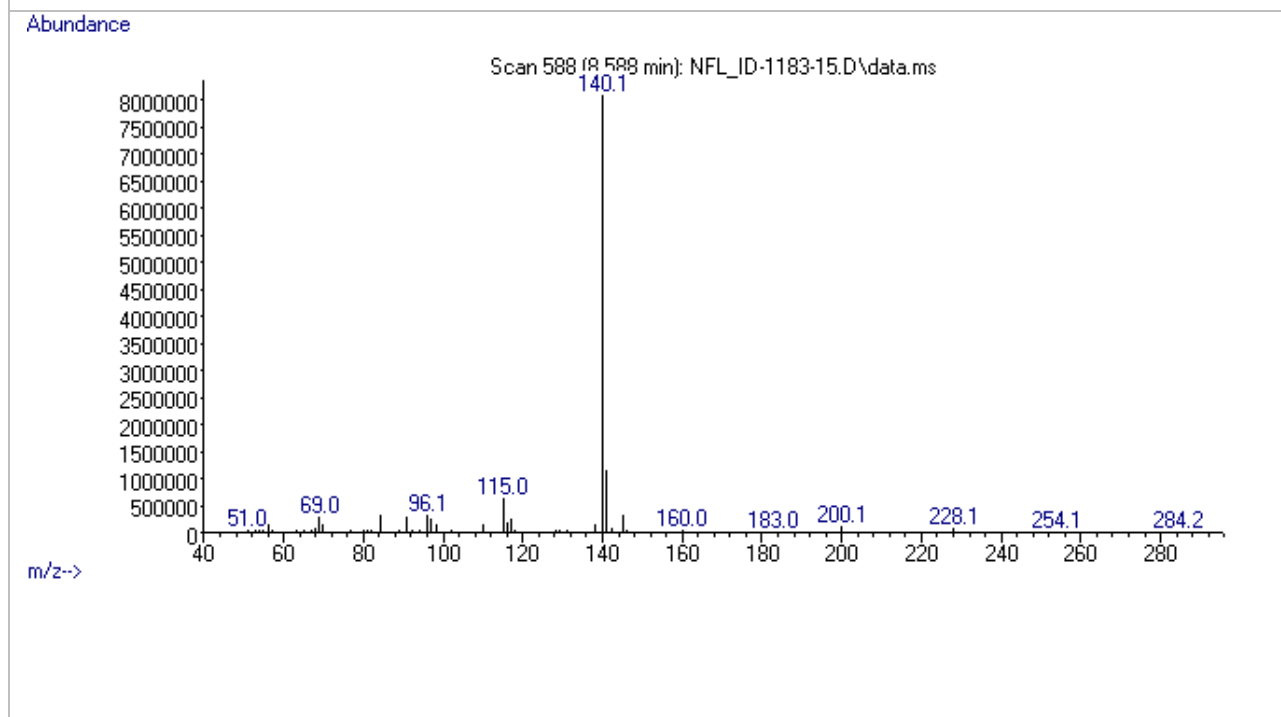
Substance identified- structure ⁱ (base form)	
Systematic name	1-(2,3-dihydro-1H-inden-5-yl)-2-(pyrrolidin-1-yl)hexan-1-one
Other names	
Formula (per base form)	C ₁₉ H ₂₇ NO
M _w (g/mol)	285,42
Salt form	HCl
Smiles	<chem>C1CCC2=CC(=CC=C12)C(C(CCCC)N1CCCC1)=O</chem>
Compound Class	Cathinones
Other NPS detected	none
Add.info (purity..)	pure

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.

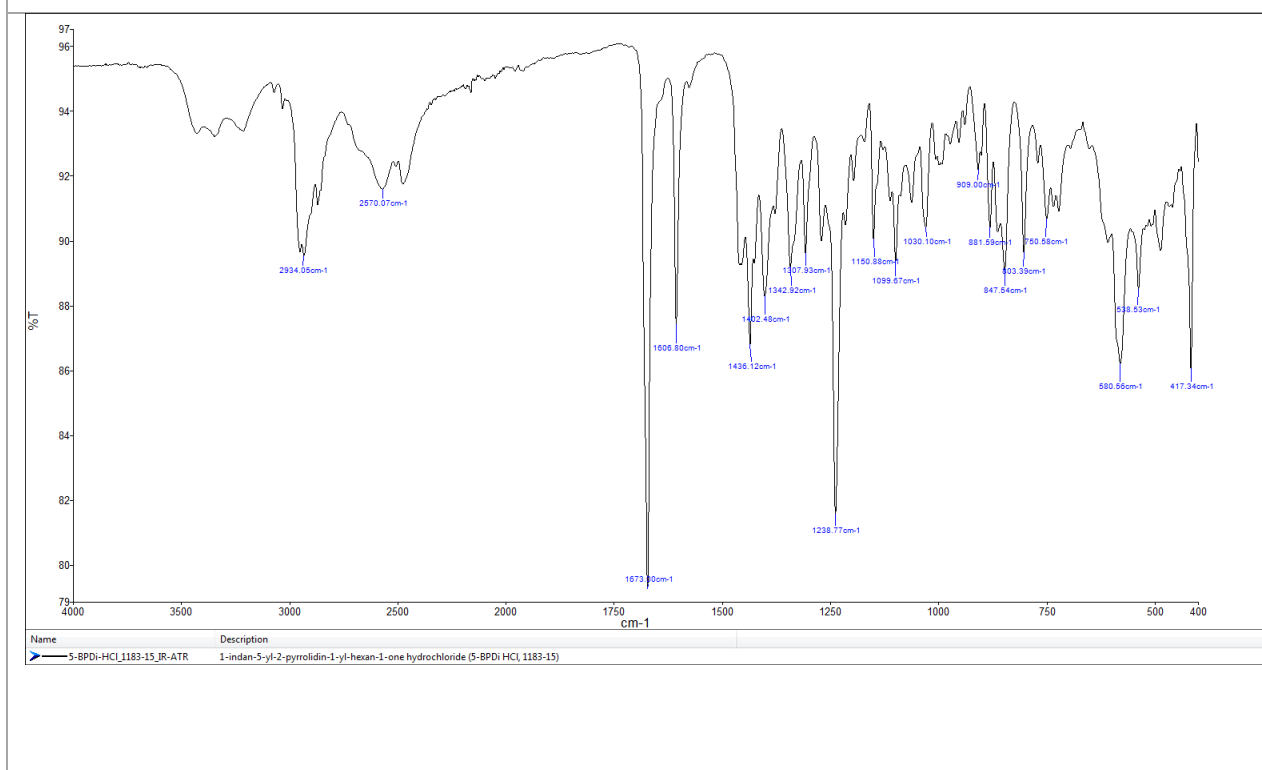
Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	BP(1): 140; BP(2): 115,BP(3) :96,
FTIR-ATR	+	HCl
FTIR (condensed phase)	/	
HPLC-TOF	+	Exact mass: 285,2093, measured/ Δ ppm:-0,59; formula:C19H27NO
NMR-confirmed	+	
validation		
other		

MS spectrum (EI)



FTIR - ATR



Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d

Target Compound Screening Report

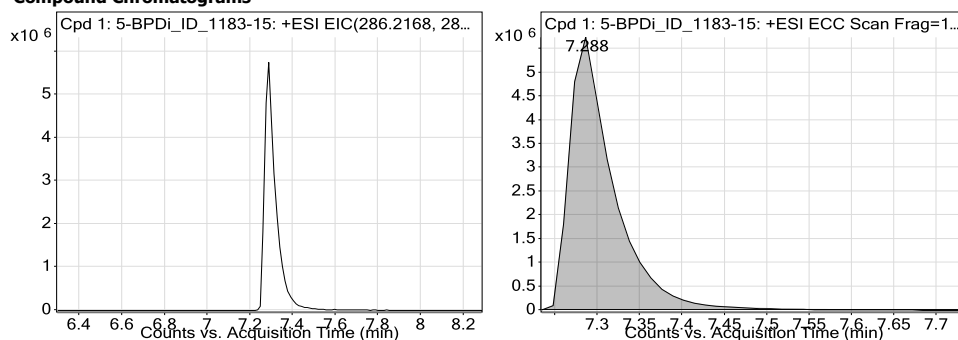
Data File	5-BPDi_1183-15_TOF.d	Sample Name	5-BPDi
Sample Type	Sample	Position	P1-E4
Instrument Name	SG13170002	User Name	
Acq Method	droge general-13-5-2015-XDB-C18-ESI-poz.m	Acquired Time	6/8/2015 10:26:43 AM
IRM Calibration Status	Success	DA Method	Droge_Default.m
Comment	extract in MeOH		

Compound Table

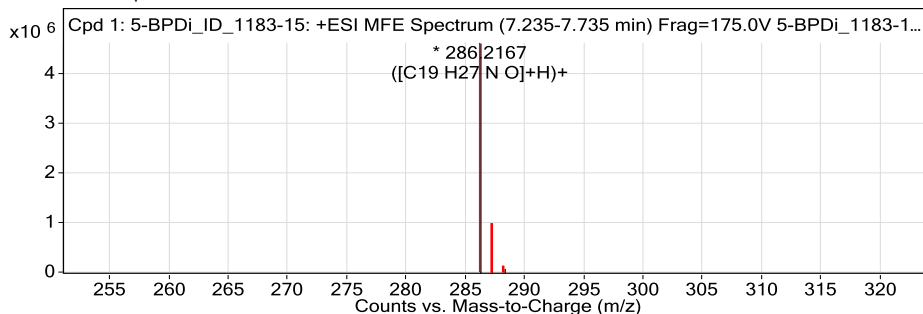
Label	Tgt Name	MFG Formula	Tgt Formula	Obs. RT	Obs. Mass
Cpd 1: 5-BPDi_ID_1183-15	5-BPDi_ID_1183-15	C19 H27 N O	C19 H27 N O	7.288	285.2094

Name	Obs. m/z	Obs. RT	Obs. Mass	DB RT	DB Formula	DB Mass	DB Mass Error	Tgt Formula	Find Cpds Algorith
5-BPDi_ID_1183-15	286.2167	7.288	285.2094	7.288	C19 H27 N O	285.2093	-0.59	C19 H27 N O	Find by Molecular Feature

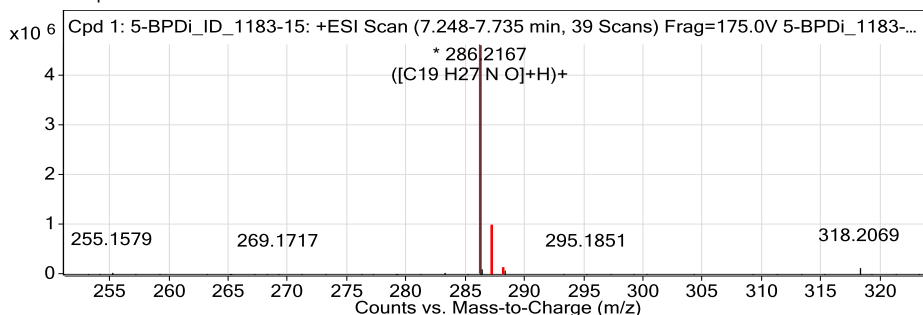
Compound Chromatograms



MFE MS Zoomed Spectrum



MS Zoomed Spectrum



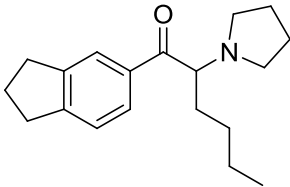
MS Spectrum Peak List

Obs. m/z	Charge	Abund	Formula	Ion/Isotope
286.2167	1	4615733	C19 H27 N O	(M+H)+
287.2202	1	967276.57	C19 H27 N O	(M+H)+
288.223	1	100377.71	C19 H27 N O	(M+H)+
289.2248	1	8628.46	C19 H27 N O	(M+H)+

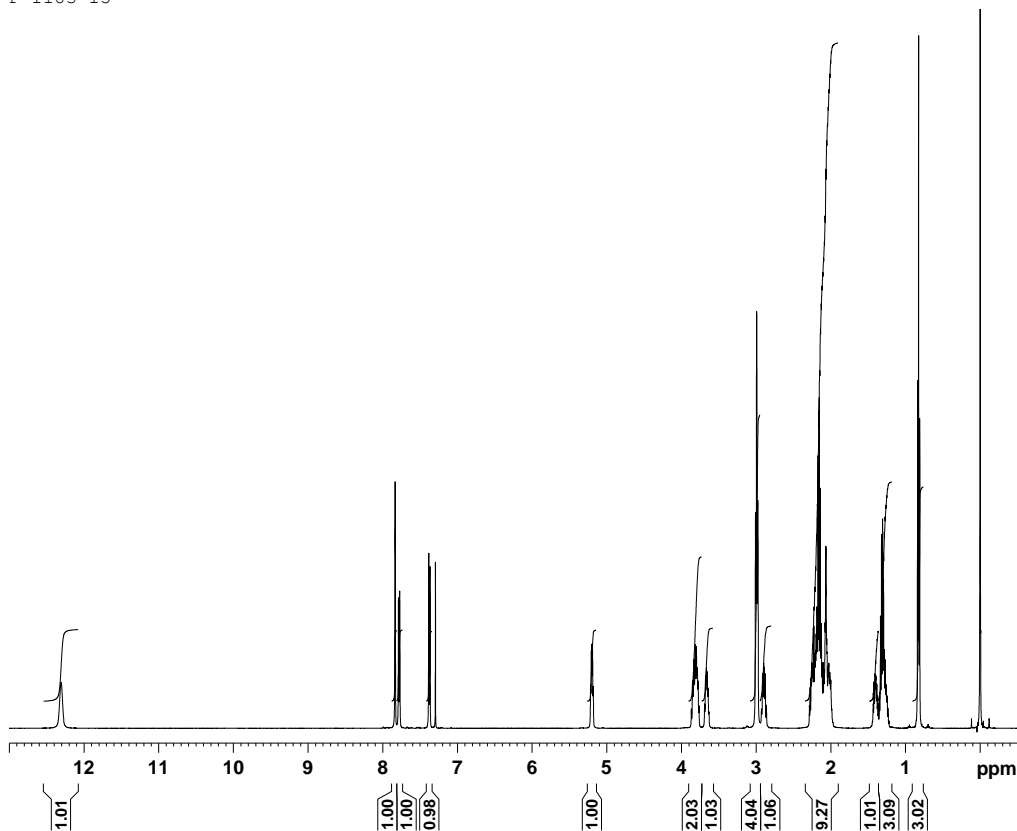
--- End Of Report ---



REPORT

Sample ID:	1183-15
Our notebook code:	P-1183-15
NMR sample preparation:	15 mg dissolved in 0.7 mL CDCl ₃
NMR experiments:	¹ H, ¹³ C, ¹ H- ¹ H <i>gs</i> -COSY, ¹ H- ¹³ C <i>gs</i> -HSQC, ¹ H- ¹³ C <i>gs</i> -HMBC, ¹ H- ¹⁵ N <i>gs</i> -HMBC.
Proposed structure with chemical name:	 <p style="text-align: right;">HCl</p> <p>1-(2,3-dihydro-1<i>H</i>-inden-5-yl)-2-(pyrrolidin-1-yl)hexan-1-one hydrochloride</p>
Comments:	<ul style="list-style-type: none"> - Structure elucidation based on 1D and 2D NMR spectra - Compound is pure by NMR
Supporting information:	Copies of ¹ H and ¹³ C NMR spectra
Author:	Prof. Dr. Janez Košmrlj
Date of report:	July 11, 2015

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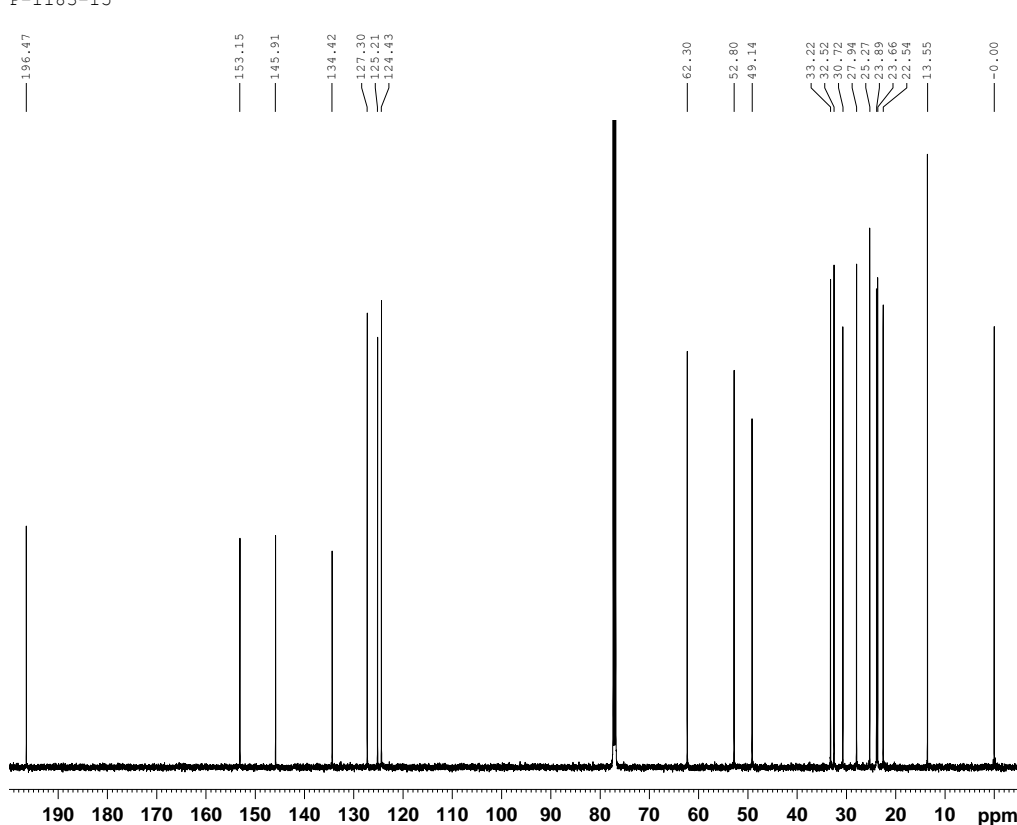
Current Data Parameters
 NAME 1183-15
 EXFNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date 20150706
 Time 22.40
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.157632 Hz
 AQ 3.1719923 sec
 RG 64
 DW 48.400 usec
 DE 6.50 usec
 TE 296.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.90 usec
 PLW1 26.00000000 W
 SFO1 500.1330885 MHz

F2 - Processing parameters
 SI 65536
 SF 500.1299961 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

P-1183-15



Current Data Parameters
 NAME 1183-15
 EXFNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date 20150707
 Time 1.12
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 3072
 DS 4
 SWH 29761.904 Hz
 FIDRES 0.454131 Hz
 AQ 1.1010548 sec
 RG 2050
 DW 16.800 usec
 DE 6.50 usec
 TE 296.0 K
 D1 1.00000000 sec
 D11 0.03000000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 9.00 usec
 PLW1 122.00000000 W
 SFO1 125.7703637 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 FCPD2 80.00 usec
 PLW2 26.00000000 W
 PLW12 0.32179001 W
 PLW13 0.20595001 W
 SFO2 500.1320005 MHz

F2 - Processing parameters
 SI 32768
 SF 125.7577879 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40