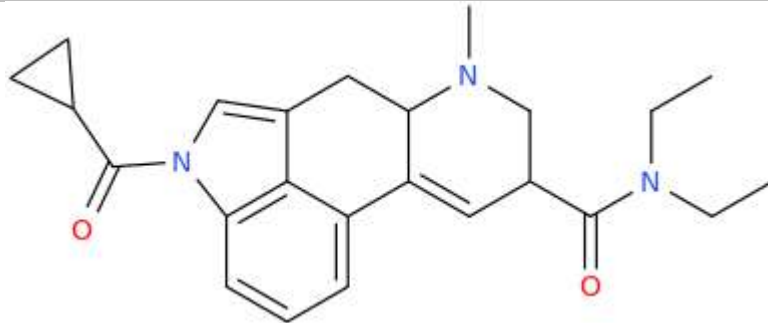


ANALYTICAL REPORT

1cP-LSD (C₂₄H₂₉N₃O₂)**11-cyclopropanecarbonyl-N,N-diethyl-6-methyl-6,11-diazatetracyclo[7.6.1.0.2,7.0.12,16]hexadeca-1(15),2,9,12(16),13-pentaene-4-carboxamide**Remark – other NPS detected: **none**

Sample ID:	2132-19
Sample description:	tablet
Sample type:	test purchase /NFL- purchasing
Date of entry (DD/MM/YYYY) into NFL database:	11/03/2020
Report updates (if any) will be published here:	http://www.policija.si/apps/nfl_response_web/seznam.php

Substance identified - structure ¹ (base form)	
Systematic name	11-cyclopropanecarbonyl-N,N-diethyl-6-methyl-6,11-diazatetracyclo[7.6.1.0.2,7.0.12,16]hexadeca-1(15),2,9,12(16),13-pentaene-4-carboxamide
Other names	1cP-LSD
Formula (per base form)	C ₂₄ H ₂₉ N ₃ O ₂
M _w (g/mol)	391,52
Salt form/anions detected	base
StdInChIKey (per base form)	RAFUPYYDHPFASC-UHFFFAOYSA-N
Other NPS detected	none
Additional info (purity..)	

¹ Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d

Report updates

date	comments (explanation)

Instrumental methods (if applied) in NFL

1. GC-MS (Agilent): GC-method is RT locked to tetracosane (9.258 min). Injection volume 1 µl and split mode (1:50). Injector temperature: 280 °C. Chromatographic separation: on column HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 µm. Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 190 °C at rate 8 °C/min, then heating up to 293 °C at a rate of 18 °C/min, hold for 7.1 min, then heating at 50 °C/min up to 325 °C and finally 6.1 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 until 6 min) amu.

2. HPLC-TOF (Agilent): 6230B TOF with Agilent 1260 Infinity HPLC with binary pump, column: Zorbax Eclipse XDB-C18, 50 x 4.6 mm, 1.8 micron. Mobile phases (A) 0.1% formic acid and 1mM ammonium formate in water; (B) 0.1% formic acid in methanol (B). Gradient: starting at 5% B, changing to 40% B over 4 min, then to 70% over 2 min and in 5 min to 100%, hold 1 min and back to 5%, equilibration for 1.7 min. The flow rate: 1.0 ml/min; Injection volume 1 µl. MS parameters: 2GHz, Extended Dynamic range mode to a maximum of 1700 amu, acquisition rate 1.30 spectra/sec. Sample ionisation: by Agilent Jet Stream technology (Dual AJS ESI). Ion source: positive ion scan mode with mass scanning from 82 to 1000 amu. Other TOF parameters: drying gas (N2) and sheath temperature 325 °C; drying gas flow rate 6 l/min; sheath gas flow rate 8 l/min; nebulizer 25 psig; Vcap. 4000 V; nozzle 2000 V; skimmer 65 V; fragmentor 175 V and Octopole RF 750 V.

3. FTIR-ATR (Perkin Elmer): scan range 4000-400 cm⁻¹; resolution 4cm⁻¹

4. GC- (MS)-IR condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny)

GC-method: Injection volume 1 µl and split mode (1:5). Injector temperature 280 °C. Chromatographic separation as above **(1)**. 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 (solid) phase): IR scan range 4000 to 650, resolution 4 cm⁻¹.

5. IC (anions) (Thermo Scientific, Dionex ICS 2100), Column: IonPac AS19, 2 x 250mm; Eluent: 10mM KOH from 0 to 10 min, 10-58 mM from 10 to 40min; Flow rate: 0.25 ml/min; Temperature: 30°C; Suppressor: AERS 500 2mm, suppressor current 13mA; Inj. Volume: 25 µl

Supporting information

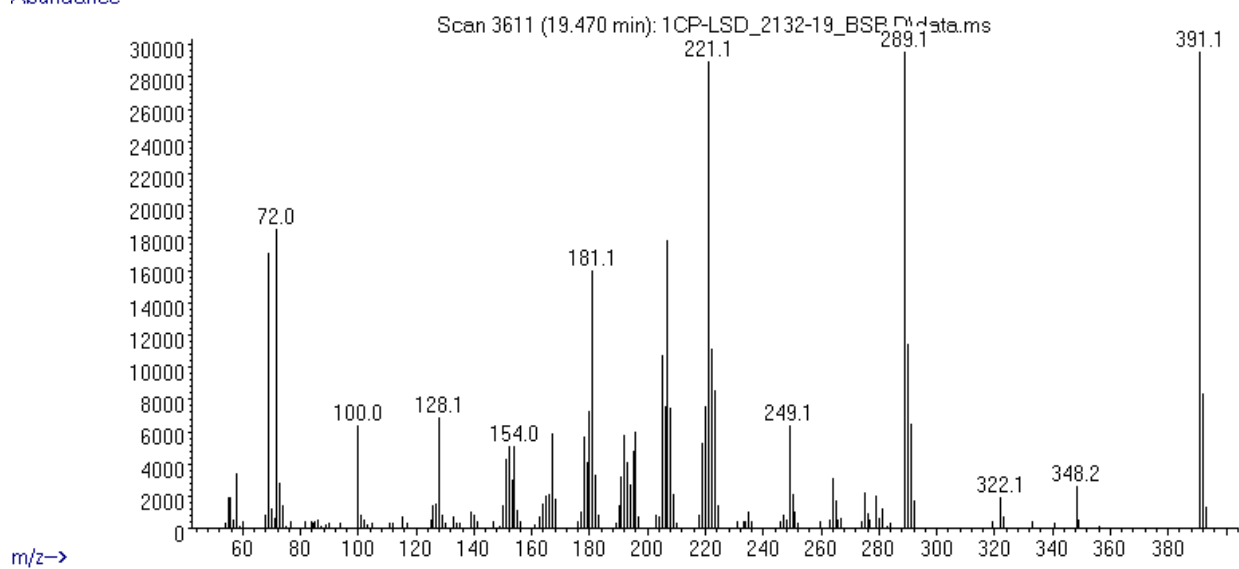
Solubility in	result/remark
CH ₂ Cl ₂	/
MeOH	/
H ₂ O	/

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 19,47 BP(1): 289; BP(2): 391, BP(3) :221,
HPLC-TOF	+	Exact mass (theoretical): 391,226; measured value Δppm:-1,38; formula:C ₂₄ H ₂₉ N ₃ O ₂
FTIR-ATR	-	direct measurement (sample as received)
FTIR (solid phase) always as base form	+	
IC (anions)		
NMR (in FKKT)		
validation		FTIR solid phase spectrum was in excellent agreement with the one published in EMCDDA EDND database by ADEBAR project
other		

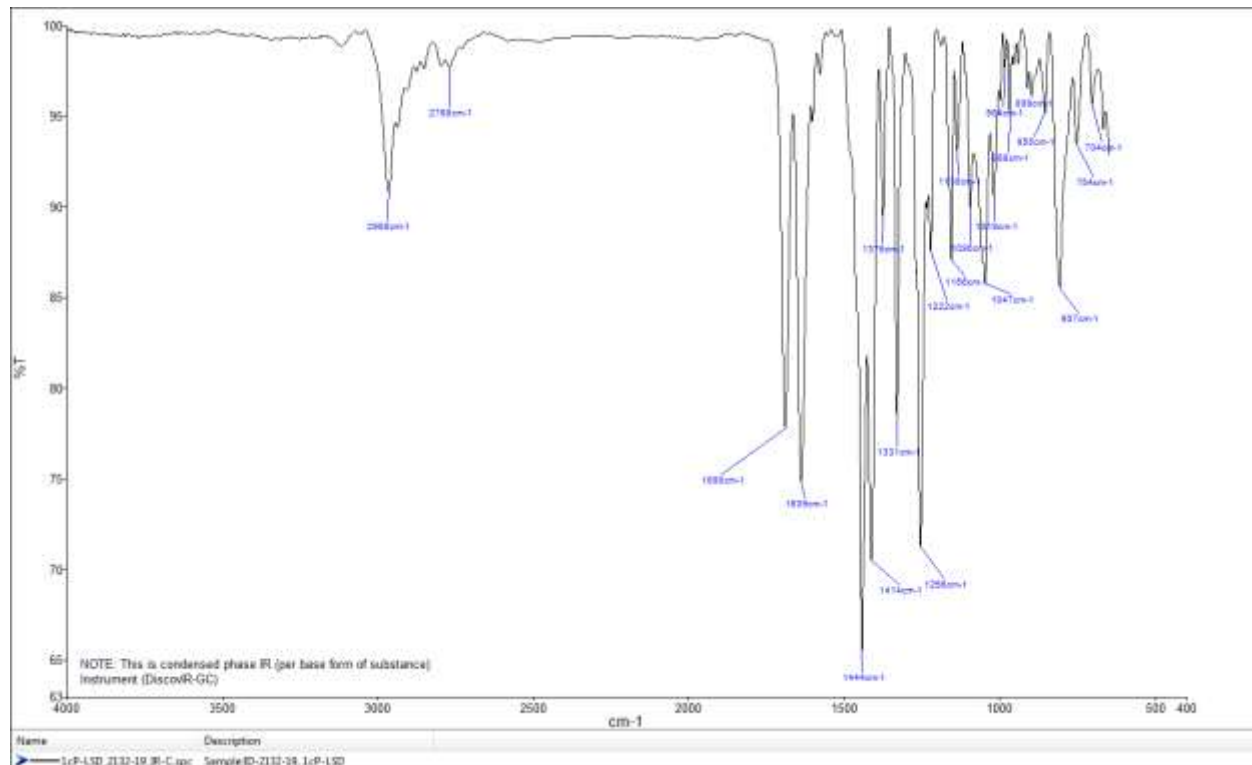
ANALYTICAL RESULTS

MS (EI). Note: background subtracted

Abundance



IR (solid phase – after chromatographic separation)



TOF REPORT

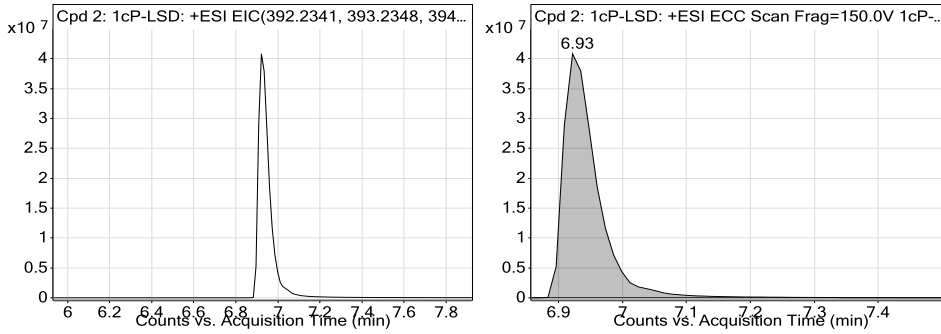
Data File	1cP-LSD_2132_19.d	Sample Name	ID-2132-19
Sample Type	Sample	Position	P1-D9
Instrument Name	6230B TOF LC-MS	User Name	TG
Acq Method	general-19_10_2019-XDB-C18-ESI+.m	Acquired Time	1/8/2020 2:10:31 PM
IRM Calibration Status	Success	DA Method	a-Drugs_NFL.m
Comment	eks v MeOH		

Compound Table

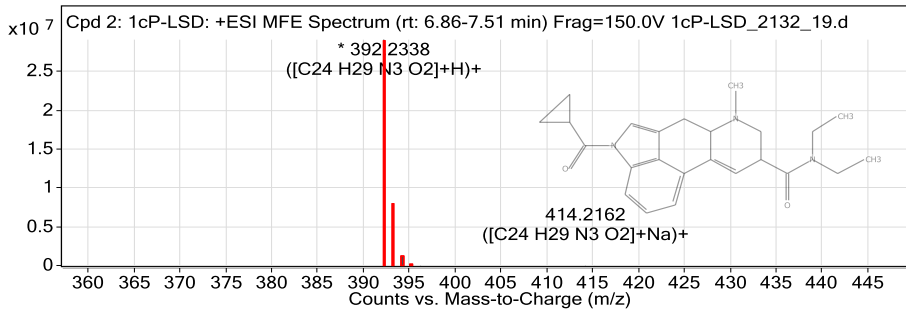
Label	Compound Name	MFG Formula	Obs. RT	Obs. Mass
Cpd 2: 1cP-LSD	1cP-LSD	C24 H29 N3 O2	6.93	391.2265

Name	Obs. m/z	Obs. RT	Obs. Mass	DB RT	DB Formula	DB Mass	DB Mass Error (ppm)
1cP-LSD	392.2338	6.93	391.2265	6.92	C24 H29 N3 O2	391.226	-1.38

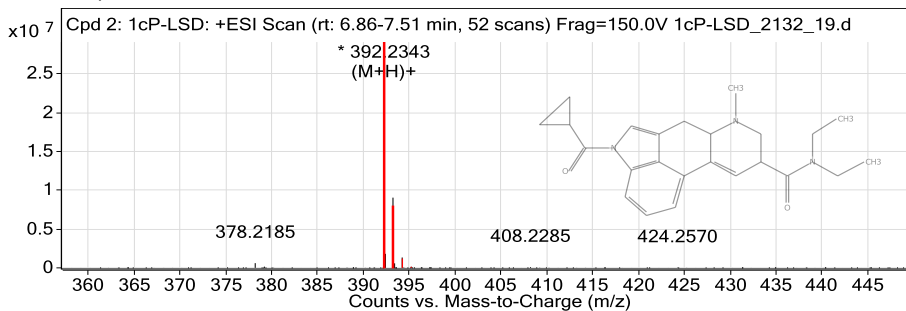
Compound Chromatograms



MFE MS Zoomed Spectrum



MS Zoomed Spectrum



MS Spectrum Peak List

Obs. m/z	Charge	Abund	Formula	Ion/Isotope
392.2338	1	29068854	C24 H29 N3 O2	(M+H)+
393.2369	1	7798562.66	C24 H29 N3 O2	(M+H)+
394.2404	1	1098729.78	C24 H29 N3 O2	(M+H)+
395.2429	1	105224.47	C24 H29 N3 O2	(M+H)+
396.2448	1	15054.4	C24 H29 N3 O2	(M+H)+
414.2162	1	13983.35	C24 H29 N3 O2	(M+Na)+
415.2198	1	4257.85	C24 H29 N3 O2	(M+Na)+

--- End Of Report ---