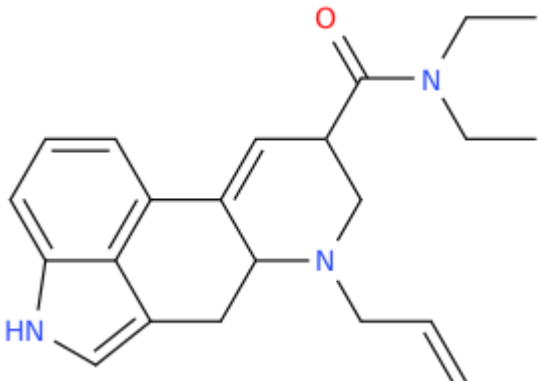


ANALYTICAL REPORT<sup>1</sup>AL-LAD (C<sub>22</sub>H<sub>27</sub>N<sub>3</sub>O)**N,N-diethyl-6-(prop-2-en-1-yl)-6,11-diazatetracyclo[7.6.1.0<sub>2</sub>.7.0<sub>12</sub>,16]hexadeca-1(16),2,9,12,14-pentaene-4-carboxamide**

Remark – other NPS detected:

Sample ID:	3017-21
Sample description:	blotter
Sample type:	test purchase /NFL- purchasing
Date of entry (DD/MM/YYYY) into NFL database:	18/10/2021
Report updates (if any) will be published here:	<a href="http://www.policija.si/apps/nfl_response_web/seznam.php">http://www.policija.si/apps/nfl_response_web/seznam.php</a>

Substance identified - structure <sup>2</sup> (base form)	
Systematic name	N,N-diethyl-6-(prop-2-en-1-yl)-6,11-diazatetracyclo[7.6.1.0 <sub>2</sub> .7.0 <sub>12</sub> ,16]hexadeca-1(16),2,9,12,14-pentaene-4-carboxamide
Other names	N,N-diethyl-7-prop-2-enyl-6,6a,8,9-tetrahydro-4H-indolo[4,3-fg]quinoline-9-carboxamide; 6-allyl-6-nor-lysergic acid diethylamide; 6-allyl-N,N-diethyl-9,10-didehydroergolin-8-karboxamid; 6-allyl-6-nor-LSD
Formula (per base form)	C <sub>22</sub> H <sub>27</sub> N <sub>3</sub> O
M <sub>w</sub> (g/mol)	349,48
Salt form/anions detected	
StdInChIKey (per base form)	JCQLEPDZFXGHHQ-UHFFFAOYSA-N
Other NPS detected	
Additional info (purity..)	

<sup>1</sup> Approved by: dr. Sonja Klemenc<sup>2</sup> 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 6.1 min, then heating at 50 °C/min up to 325 °C and finally 9.1 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<sup>-1</sup>; resolution 4cm<sup>-1</sup>

**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<sup>-1</sup>.

**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

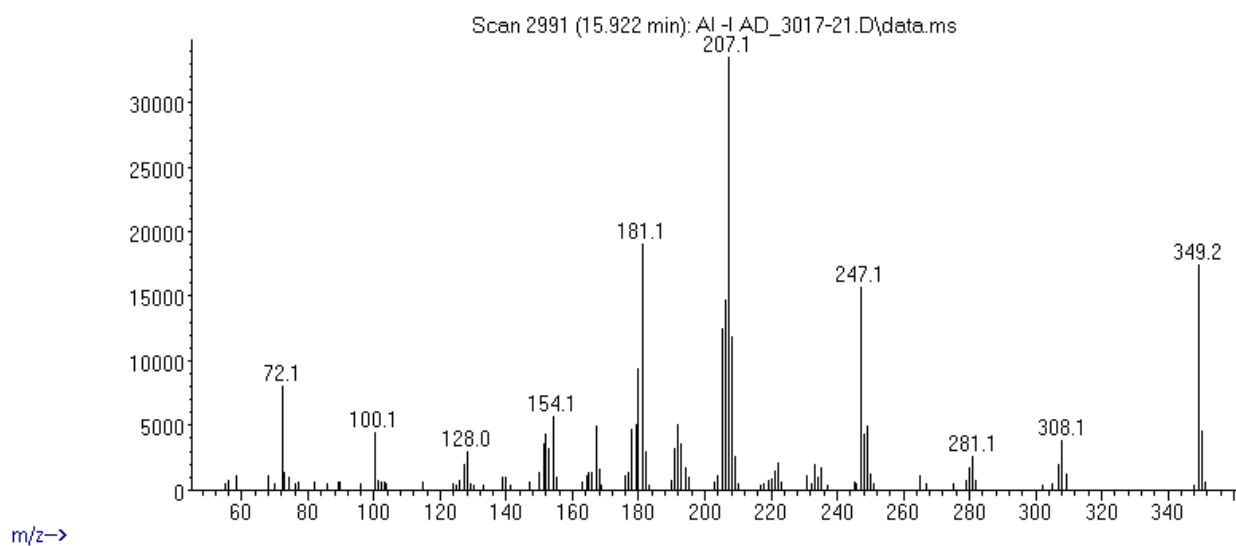
Solubility in	result/remark
CH <sub>2</sub> Cl <sub>2</sub>	-
MeOH	soluble
H <sub>2</sub> O	-

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 15,92 BP(1): 207; BP(2): 181,BP(3) :349,
HPLC-TOF	+	Exact mass (theoretical): 349,2154; measured value Δppm:-1,02; formula:C22H27N3O
FTIR-ATR	-	direct measurement (sample as received)
FTIR (solid phase) always as base form	+	
IC (anions)	-	
NMR (in FKKT)	-	
validation		MS spectrum match with Cayman, SWGDRUG and DDL2020
other		

# ANALYTICAL RESULTS

MS (EI)

Abundance



# IR (solid phase – after chromatographic separation)

