

SUPPORTING INFORMATION

Osmanicin, a Polyketide Alkaloid Isolated from *Streptomyces osmaniensis* CA-244599 inhibits Elastase in Human Fibroblasts

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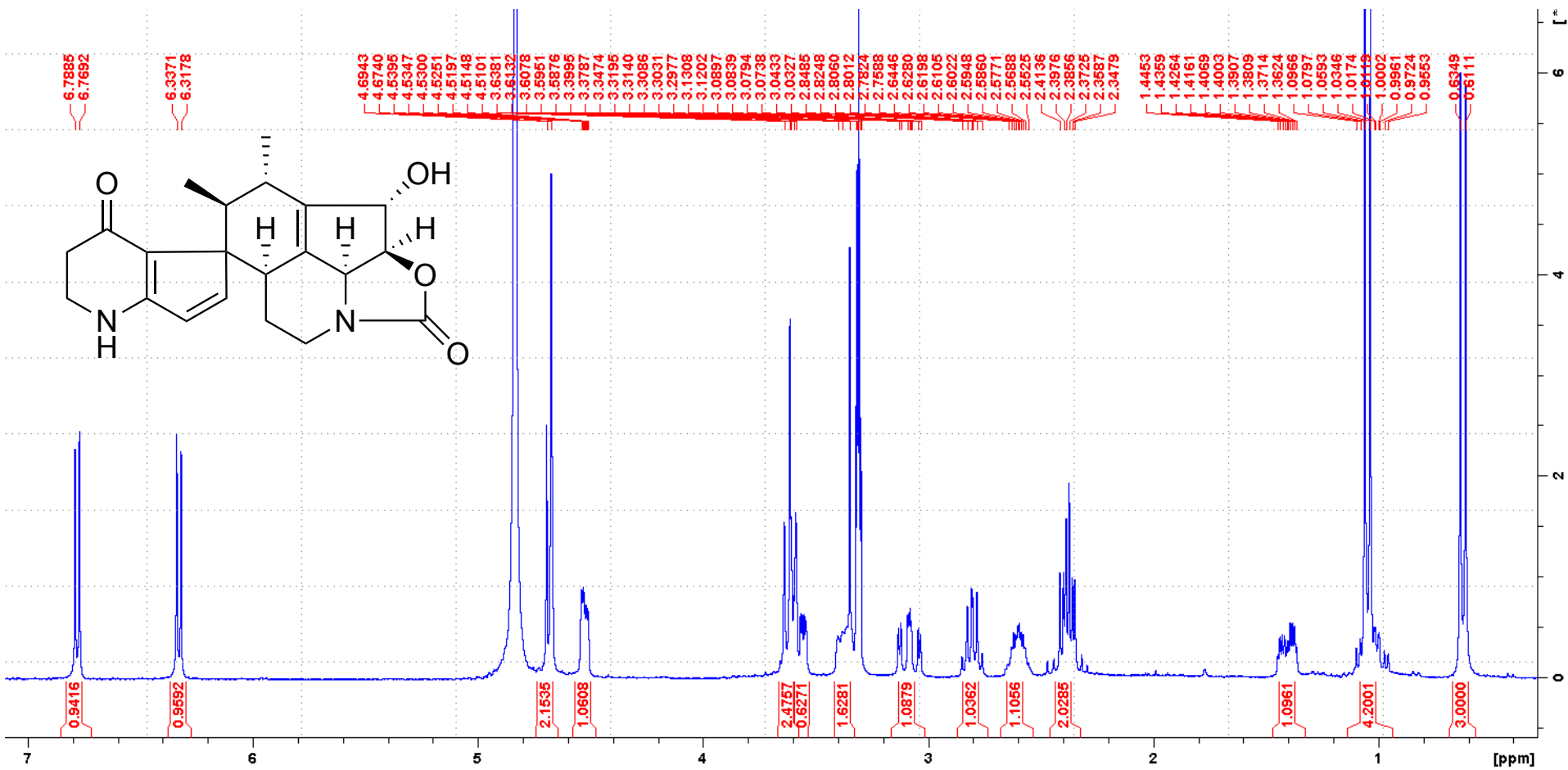
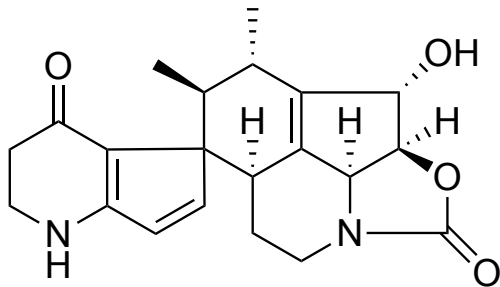
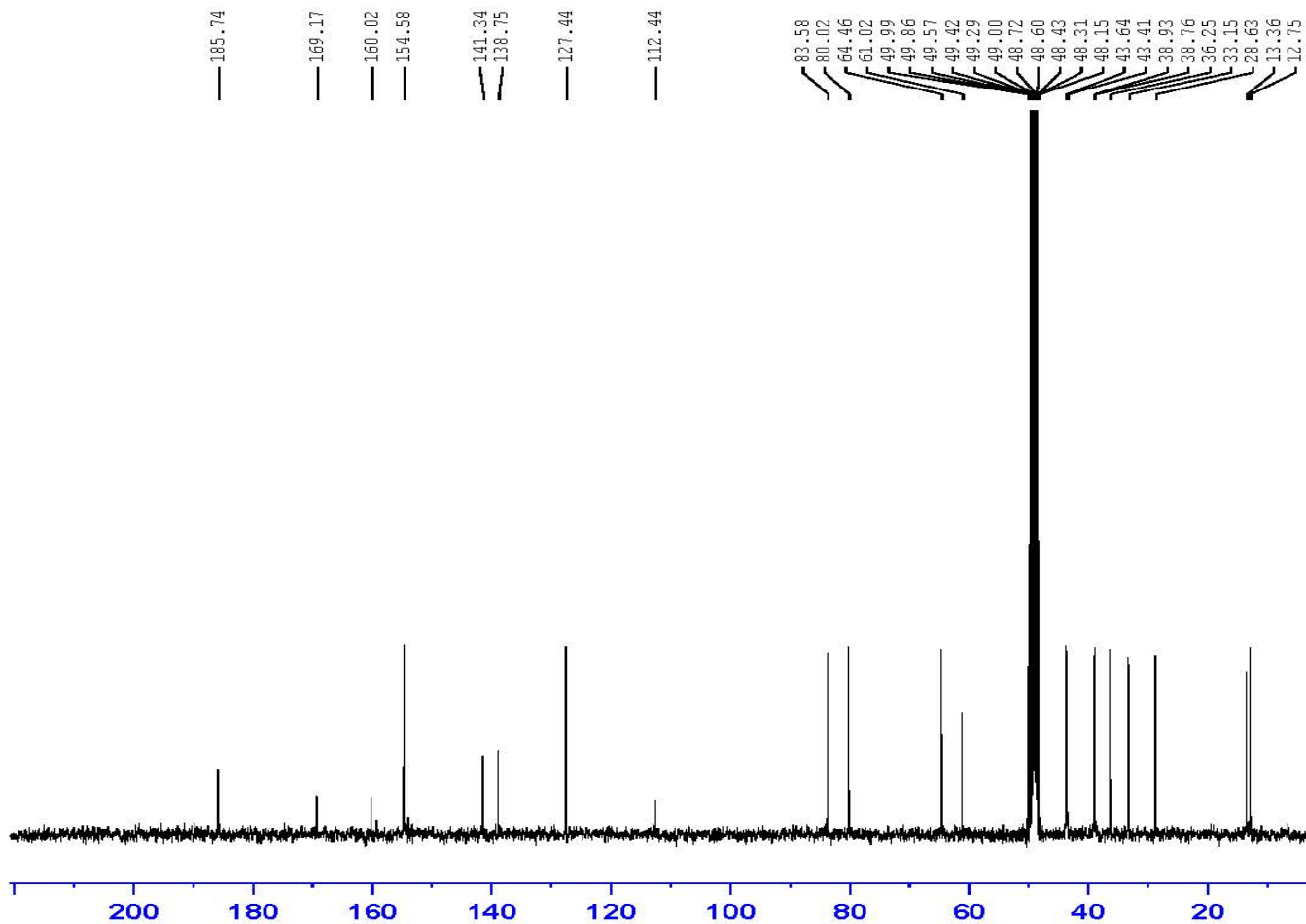


Figure S1. ¹H NMR (300 MHz, CD₃OD) spectrum of compound 1



C13-UDEFT-2k MeOD /opt/topspin2.8 Ouazzani 34



```

Current Data Parameters
NAME      S Chart F AE C-3
EXPNO    2
PROCNO   1

F2 - Acquisition Parameters
Date_    20170210
Time     16.09
INSTRUM  spect
PROBHD   5 mm PABBO BB-
PULPROG  udef1
TD       12946
SOLVENT  MeOD
NS       2048
DS       4
SWH      17985.611 Hz
FIDRES   1.389279 Hz
AQ       0.3598988 sec
RG       1149.4
DW       27.800 usec
DE       6.50 usec
TE       300.0 K
D1       2.00000000 sec
D11      0.03000000 sec
D12      0.00002000 sec
D20      20.00000000 sec
TD0      1

===== CHANNEL f1 =====
NUC1     13C
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P2       2000.00 usec
P26      500.00 usec
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SFO1     75.4853543 MHz
SP2      8.77 dB
SP8      8.77 dB
SPNAM[2] Crp60comp.4
SPNAM[8] Crp60,0.5,20.1
SFOAL2   0.500
SFOALS   0.500
SPOFFS2  0 Hz
SPOFFS8  0 Hz

===== CHANNEL f2 =====
CPDPRG[2] waltz16
NUC2     1H
PCPD2   80.00 usec
PL2     3.80 dB
PL12    20.00 dB
SFO2    300.1721012 MHz

F2 - Processing parameters
SI       32768
SF       75.4776892 MHz
WDW      EM
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LB       2.00 Hz
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Figure S1. ¹³C NMR (300 MHz, CD₃OD) spectrum of compound 1

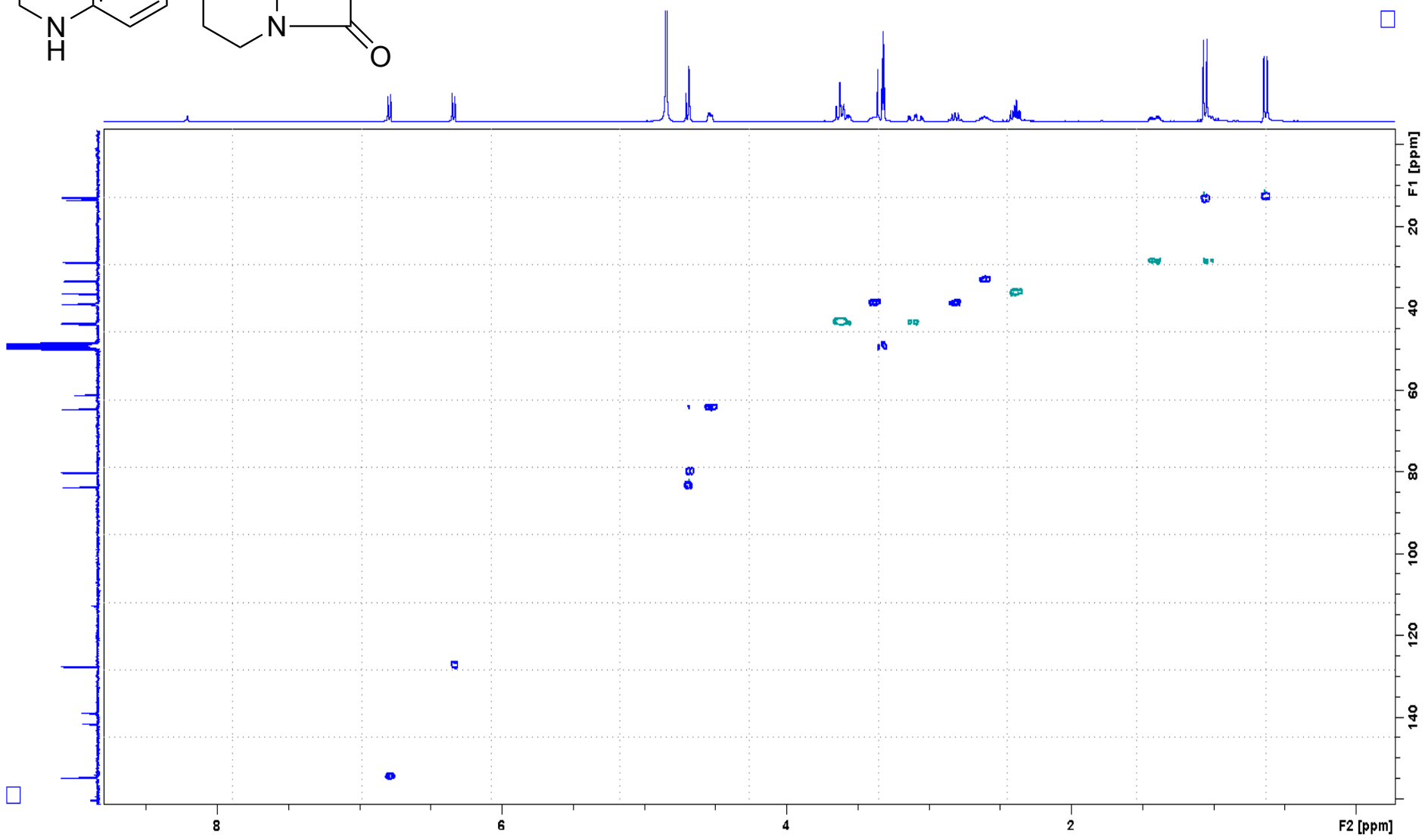
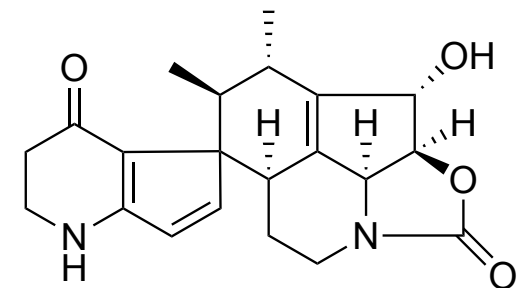


Figure S3. HSQC (300 MHz, CD₃OD) spectrum of compound 1

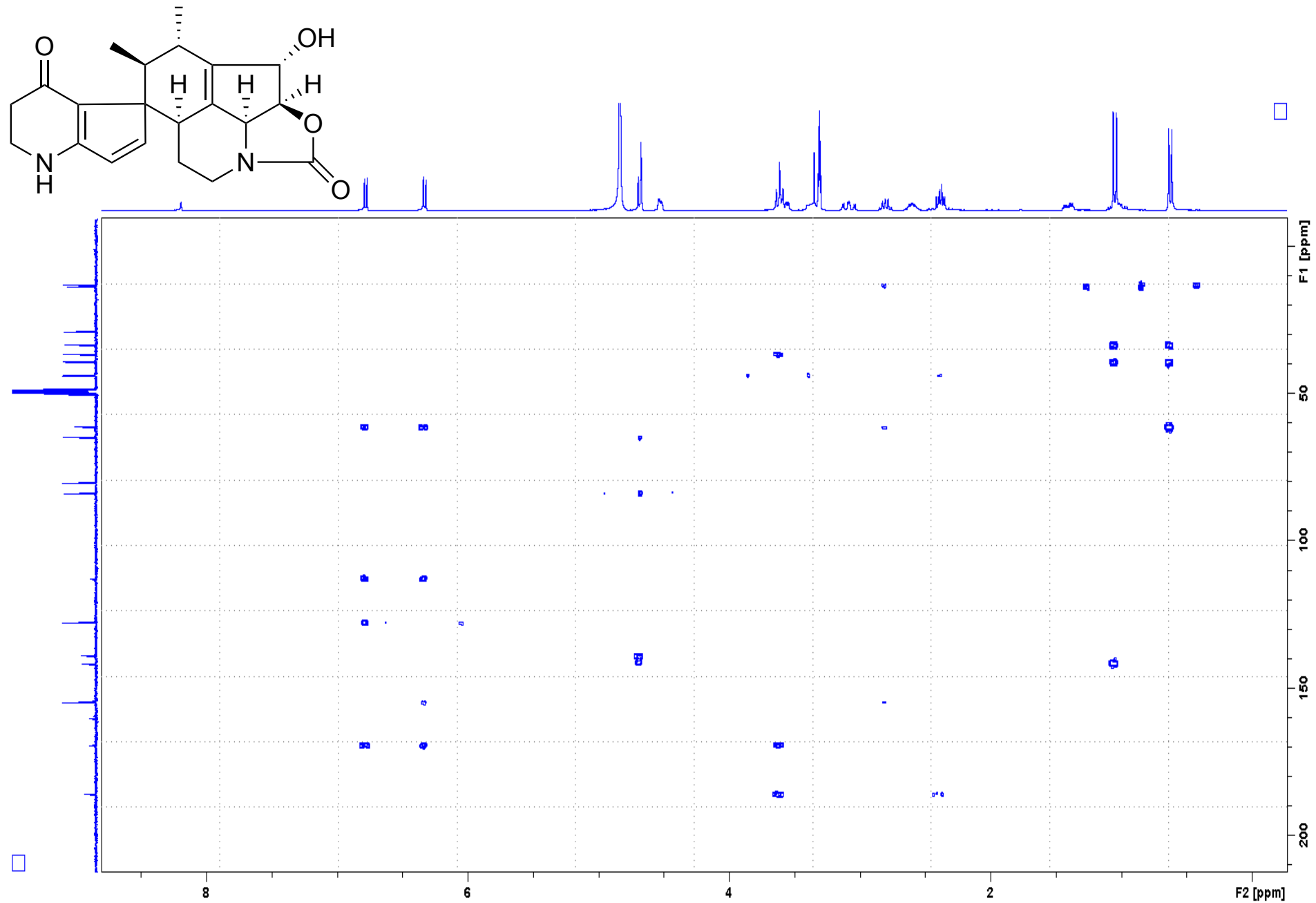


Figure S4. HMBC (300 MHz, CD₃OD) spectrum of compound 1

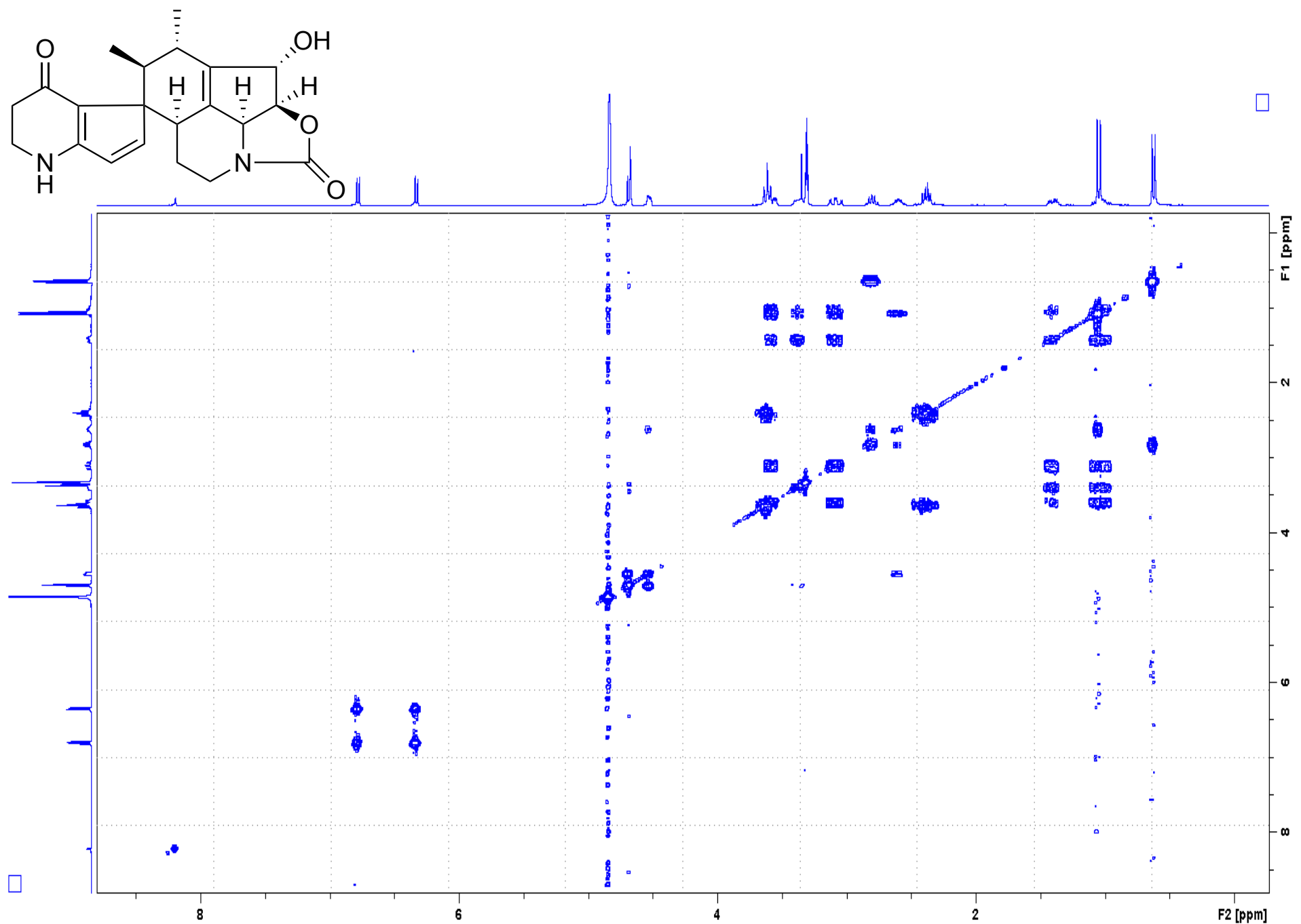


Figure S5. COSY (300 MHz, CD₃OD) spectrum of compound 1

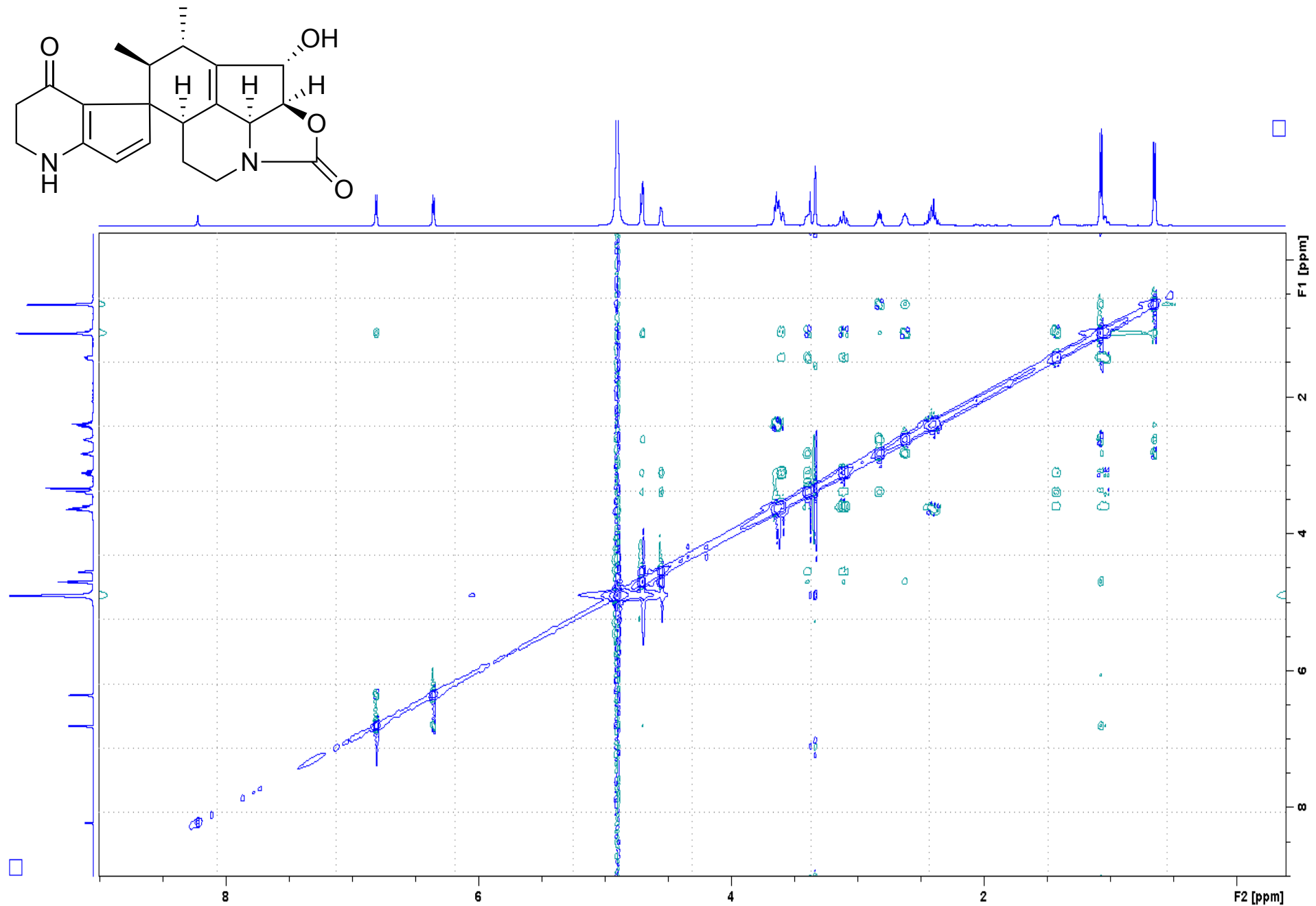


Figure S6. ROESY (500 MHz, CD₃OD) spectrum of compound 1

Elemental Composition Report

Single Mass Analysis

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 100.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 9

Monoisotopic Mass, Even Electron Ions

917 formula(e) evaluated with 11 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-100 H: 0-120 N: 0-10 O: 0-10 Na: 0-1

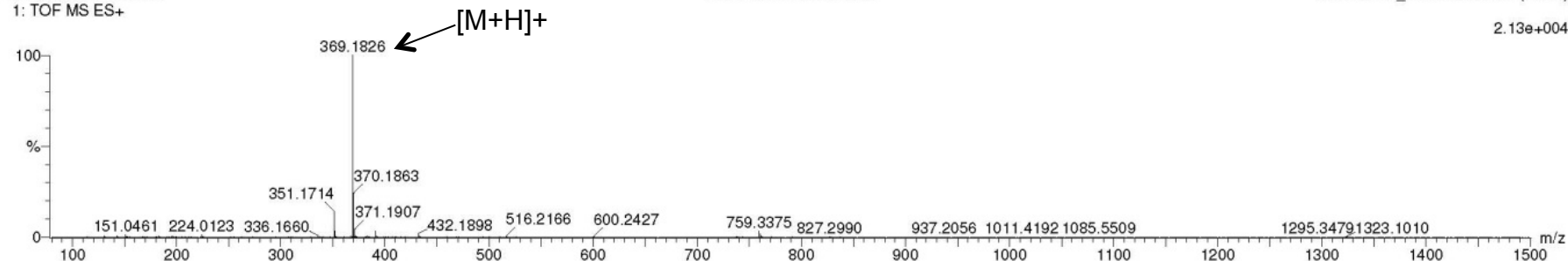
08-Feb-2017 17:38:49

1: TOF MS ES+

LCT Premier XE KE483

OUAZZANI_eskandar4-3 27 (0.698)

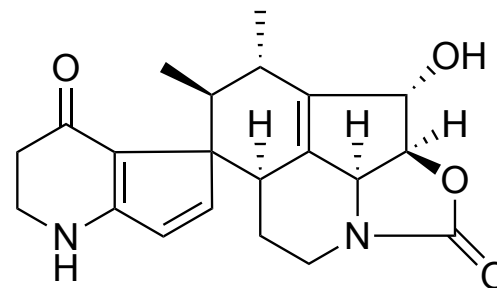
2.13e+004



Minimum: -1.5
Maximum: 5.0 10.0 100.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	i-FIT (Norm)	Formula
369.1826	369.1828	-0.2	-0.5	15.5	417.6	3.5	C22 H21 N6
	369.1822	0.4	1.1	-0.5	426.9	12.8	C8 H26 N8 O7 Na
	369.1831	-0.5	-1.4	11.5	416.6	2.5	C24 H26 O2 Na
	369.1814	1.2	3.3	10.5	414.2	0.2	C21 H25 N2 O4
	369.1846	-2.0	-5.4	2.5	424.9	10.9	C10 H25 N8 O7
	369.1806	2.0	5.4	-1.5	429.0	14.9	C5 H25 N10 O9
	369.1804	2.2	6.0	12.5	418.2	4.2	C20 H22 N6 Na
	369.1849	-2.3	-6.2	-1.5	424.3	10.3	C12 H30 N2 O9 Na
	369.1855	-2.9	-7.9	14.5	419.0	5.0	C26 H25 O2
	369.1862	-3.6	-9.8	3.5	423.0	9.0	C13 H26 N6 O5 Na
	369.1790	3.6	9.8	7.5	416.9	2.8	C19 H26 N2 O4 Na

Figure S7. HRESIMS of compound 1



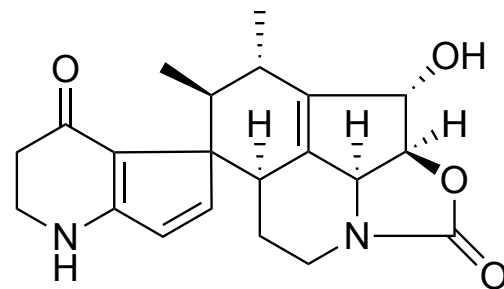
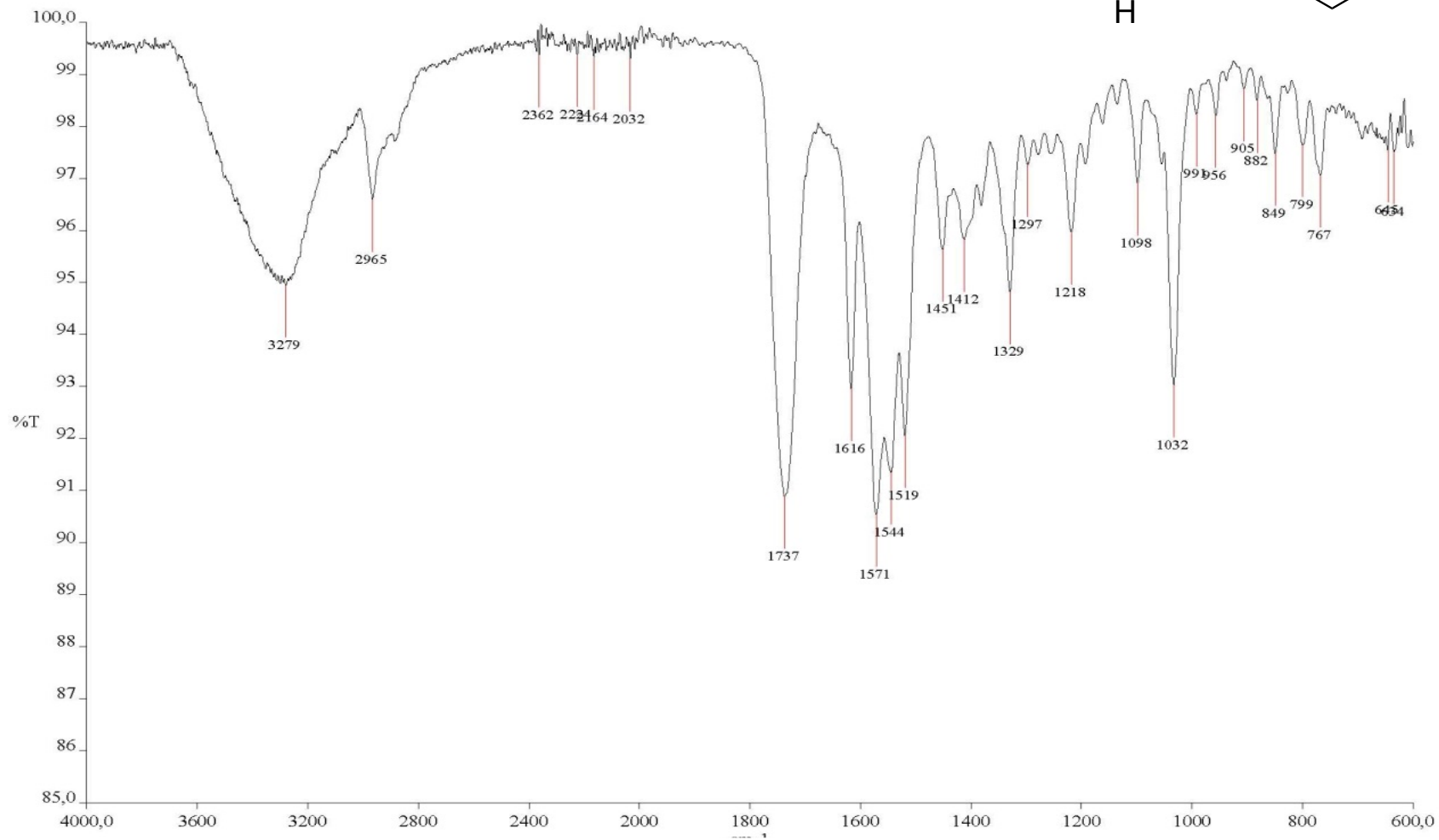


Figure S8. IR spectrum of compound 1