

## Supporting Information

### **Scalemic** Myrionsumamide A, Tetracyclic Skeleton

#### Alkaloids from *Myrioneuron effusum*

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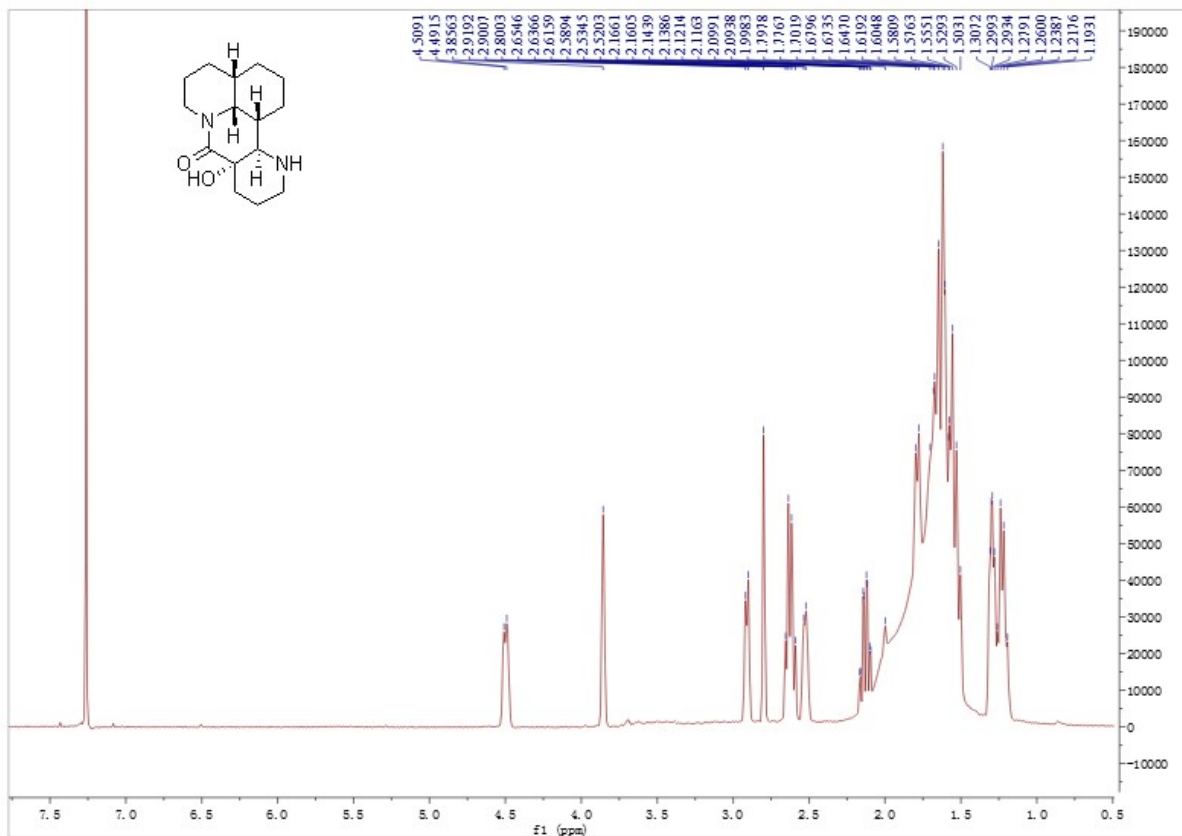
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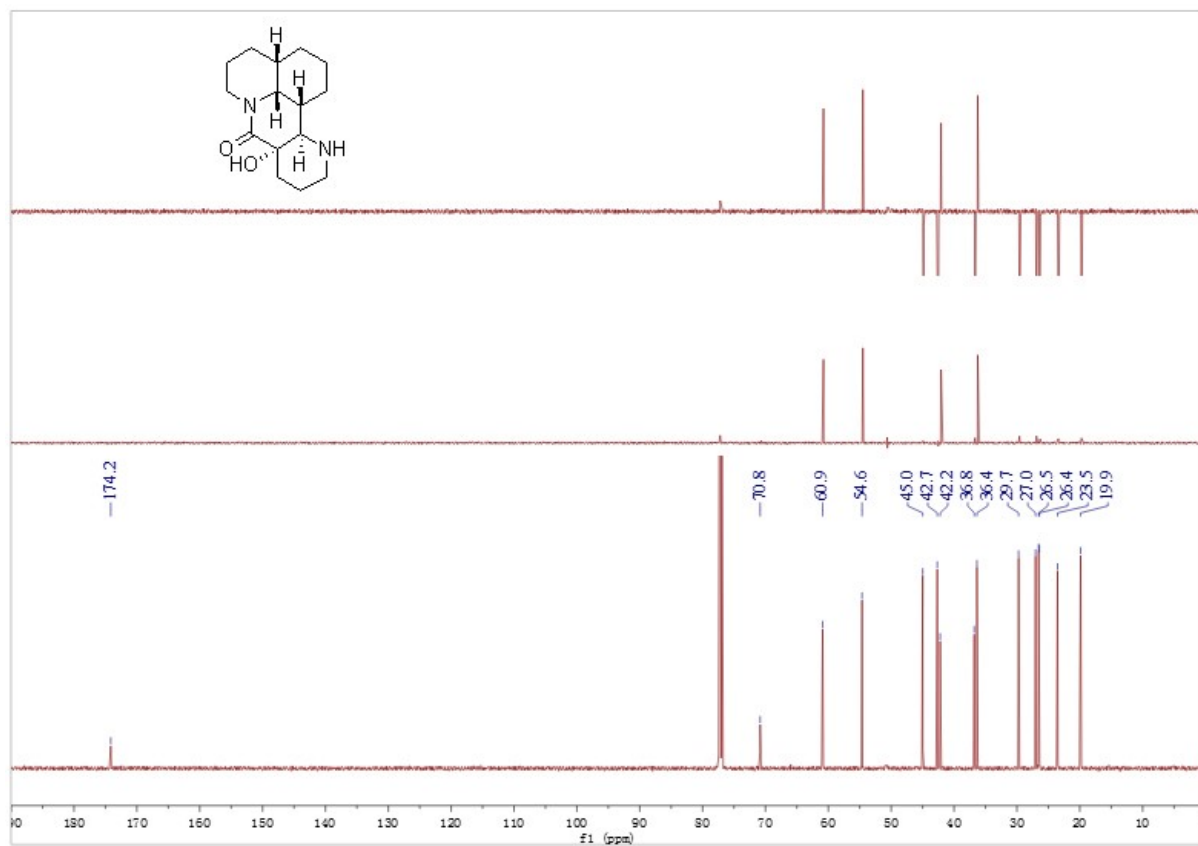
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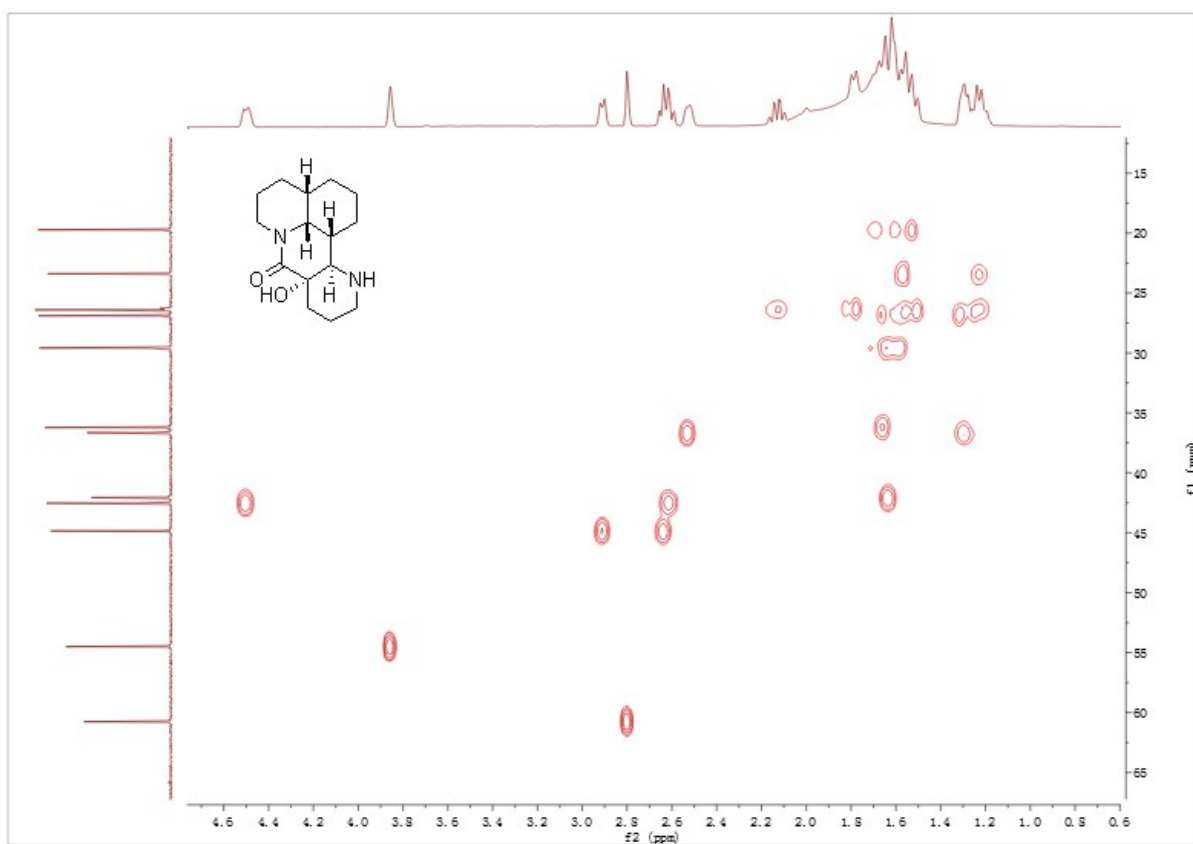
### S1.1 <sup>1</sup>H NMR spectrum of Myrionsumamide A (1) in CDCl<sub>3</sub>-d<sub>1</sub>



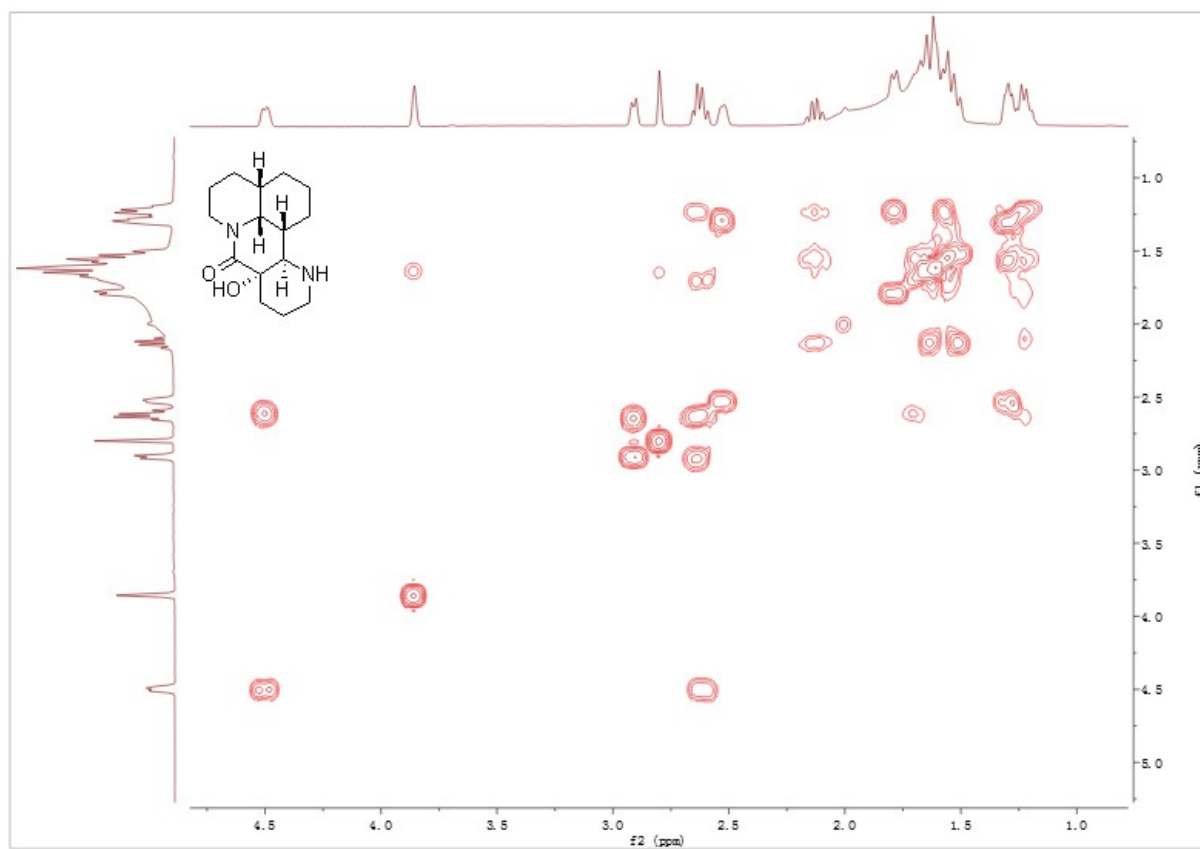
S1.2  $^{13}\text{C}$  NMR spectrum of Myrionsumamide A (1) in  $\text{CDCl}_3-d_1$



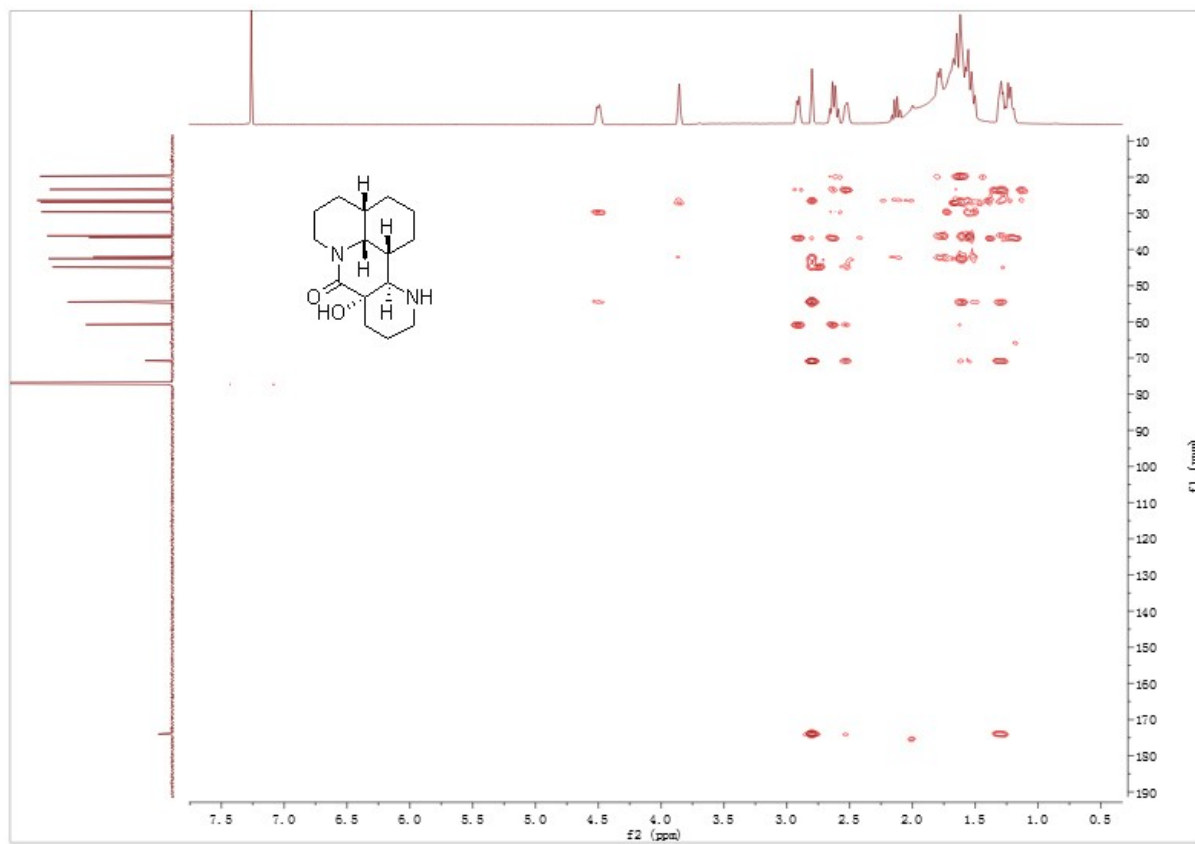
### S1.3 HSQC spectrum of Myrionsumamide A (1) in CDCl<sub>3</sub>-d<sub>1</sub>



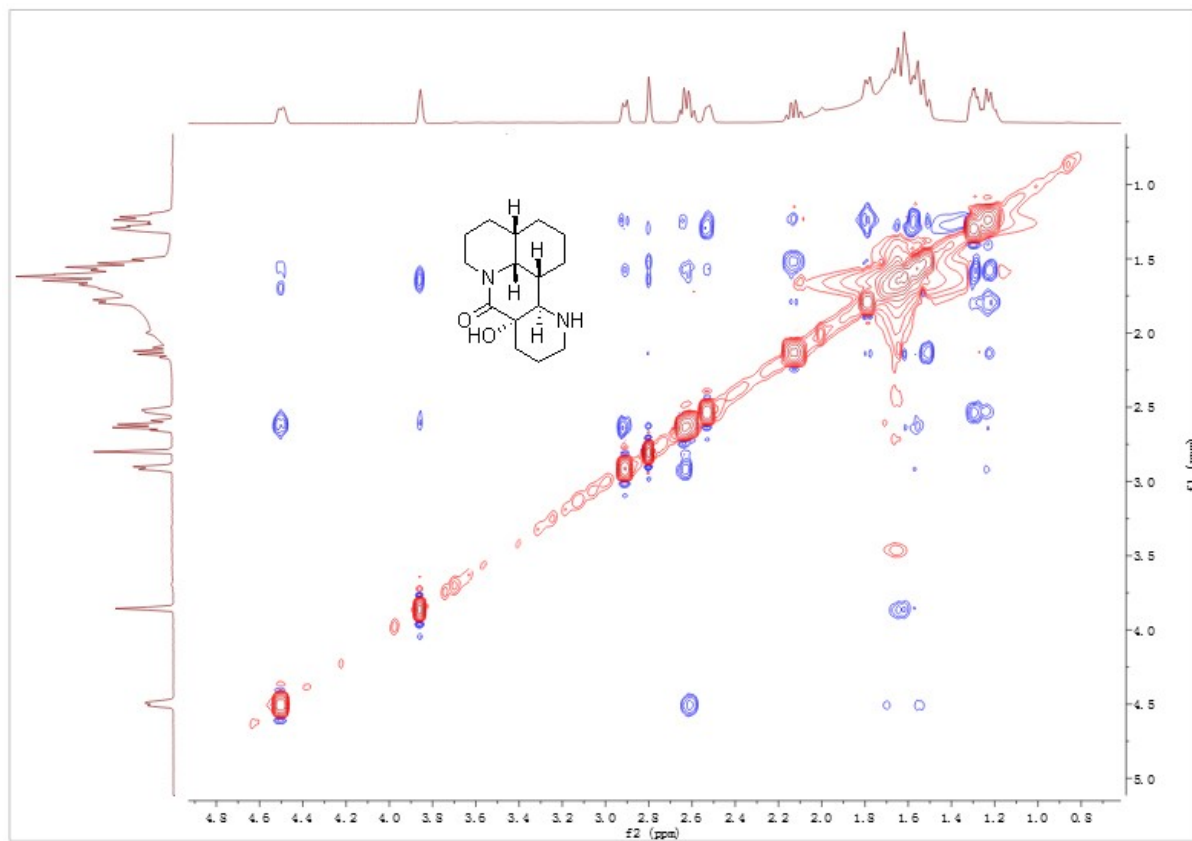
S1.4  $^1\text{H}$ - $^1\text{H}$ COSY spectrum of Myrionsumamide A (1) in  $\text{CDCl}_3-d_1$



S1.5 HMBC spectrum of Myrionsumamide A (1) in  $\text{CDCl}_3-d_1$



**S1.6 ROESY spectrum of Myrionsumamide A (1) in CDCl<sub>3</sub>-d<sub>1</sub>**





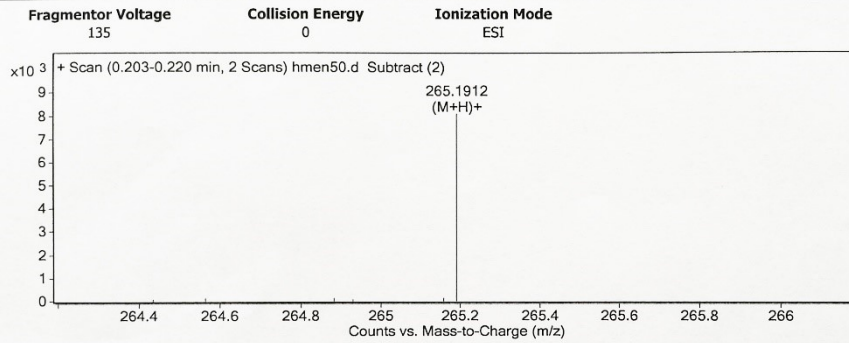
# S1.7 HRESIMS spectrums of Myrionsumamide A (1)

## Qualitative Analysis Report

**Data Filename** hmen50.d **Sample Name** hmen50  
**Sample Type** Sample **Position** P1-C4  
**Instrument Name** Instrument 1 **User Name**  
**Acq Method** SIBU.m **Acquired Time** 12/22/2015 10:42:47 AM  
**IRM Calibration Status** Success **DA Method** ESI+.m  
**Comment**

**Sample Group** **Info.**  
**Acquisition SW** 6200 series TOF/6500 series  
**Version** Q-TOF B.05.01 (B5125.2)

### User Spectra



### Peak List

m/z	z	Abund	Formula	Ion
265.1912	1	8139	C15 H24 N2 O2	(M+H)+
266.1945	1	1219.44	C15 H24 N2 O2	(M+H)+
279.2064		819.27		
287.1725		630.36		
303.1468		1934.36		
343.2021		604.61		
477.3125		848.48		
678.4785		514.88		

### Formula Calculator Element Limits

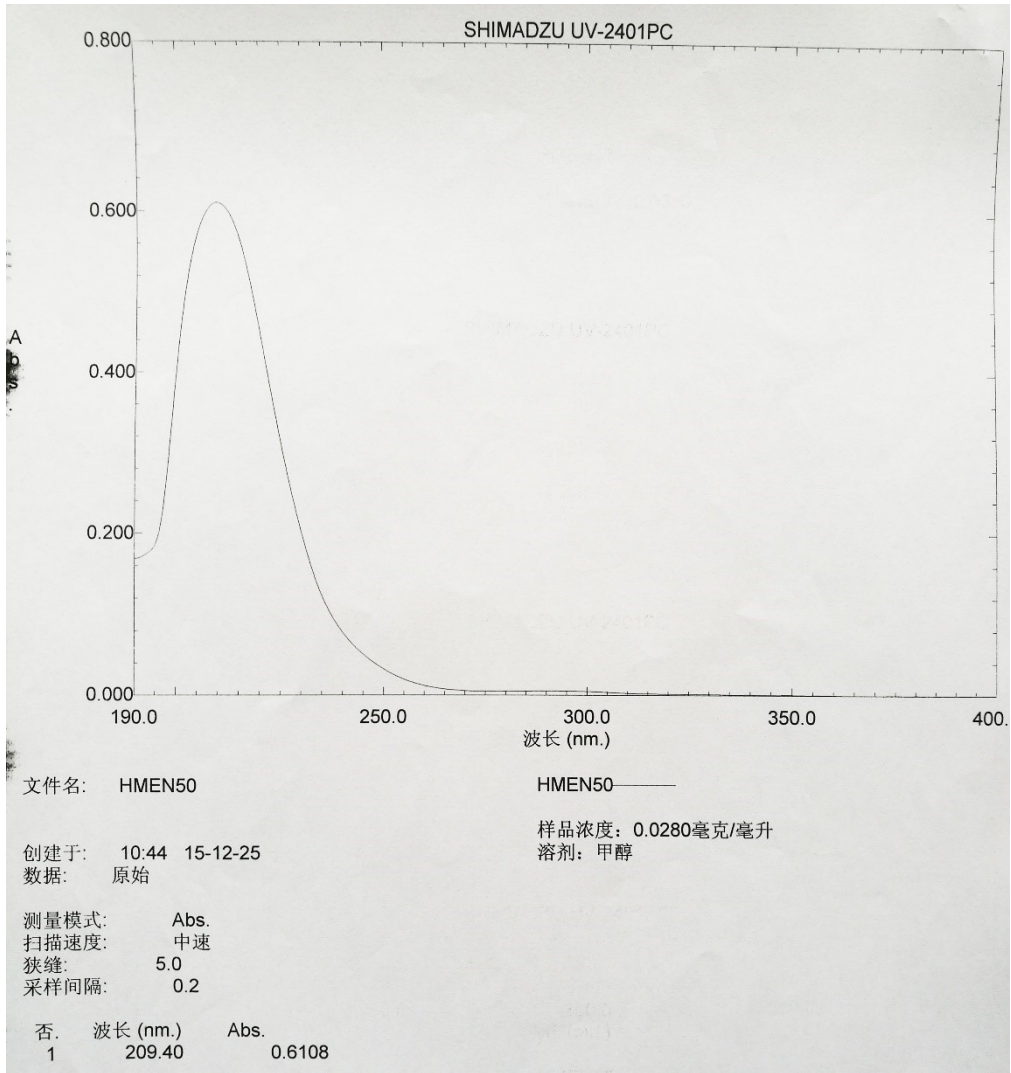
Element	Min	Max
C	3	60
H	0	120
O	0	30
N	0	10

### Formula Calculator Results

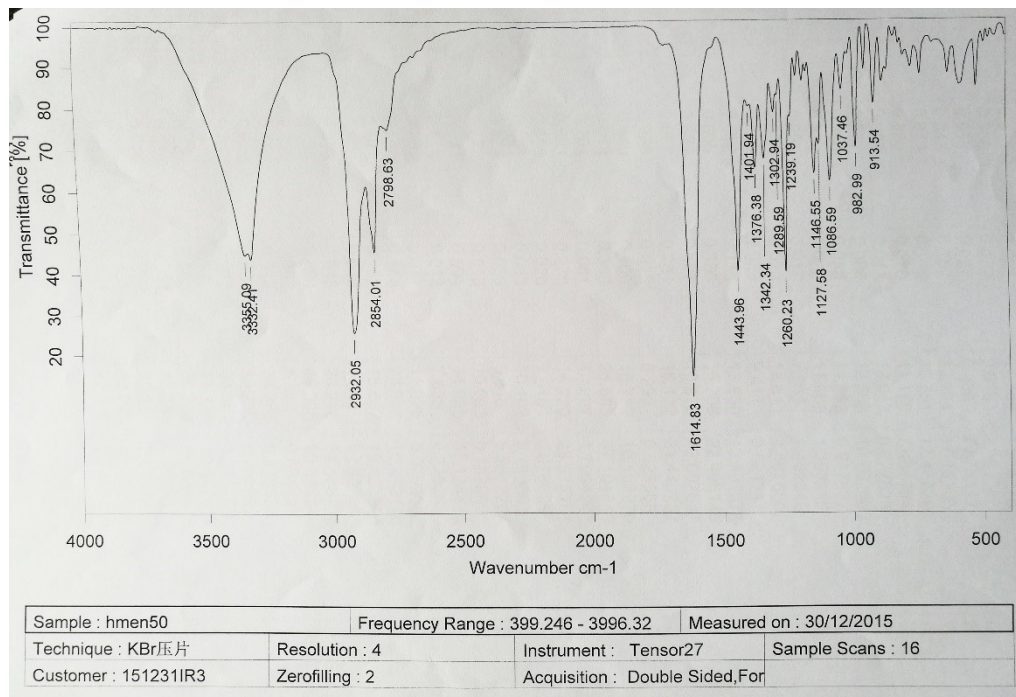
Formula	CalculatedMass	CalculatedMz	Mz	Diff. (mDa)	Diff. (ppm)	DBE
C15 H24 N2 O2	264.1838	265.1911	265.1912	-0.1	-0.5	5.0000

--- End Of Report ---

### S1.8 UV spectrum of Myrionsumamide A (1) in Methanol



### S1.9 IR spectrum of Myrionsumamide A (1)



### S1.10 Optical rotation spectrum of (±)-Myrionsumamide A (1)

Optical rotation measurement

Model : P-1020 (A060460638)

No.	Sample	Mode	Data	Monitor Blank	Temp. Cell Temp Point	Date Comment Sample Name	Light Filter Operator	Cycle Time Integ Time
No.1	35 (1/3)	Sp.Rot	9.5000	0.0038 0.0000	19.2 10.00 Cell	Tue Dec 22 21:35:16 2015 0.00400g/mL MeOH HMEN50	Na 589nm Operator	2 sec 10 sec
No.2	35 (2/3)	Sp.Rot	8.7500	0.0035 0.0000	19.2 10.00 Cell	Tue Dec 22 21:35:30 2015 0.00400g/mL MeOH HMEN50	Na 589nm Operator	2 sec 10 sec
No.3	35 (3/3)	Sp.Rot	8.2500	0.0033 0.0000	19.3 10.00 Cell	Tue Dec 22 21:35:43 2015 0.00400g/mL MeOH HMEN50	Na 589nm Operator	2 sec 10 sec

*+8.8333°*

### S1.11 Optical rotation spectrum of (+)-Myrionsumamide A (1)

Optical rotation measurement

Model : P-1020 (A060460638)

No.	Sample	Mode	Data	Monitor Blank	Temp. Cell Temp Point	Date Comment Sample Name	Light Filter Operator	Cycle Time Integ Time
No.1	6 (1/3)	Sp.Rot	8.2860	0.0058 0.0000	23.9 50.00 Cell	Tue Mar 08 18:37:29 2016 0.00140g/mL MeOH HMEN50B	Na 589nm Operator	2 sec 10 sec
No.2	6 (2/3)	Sp.Rot	5.5710	0.0039 0.0000	23.9 50.00 Cell	Tue Mar 08 18:37:43 2016 0.00140g/mL MeOH HMEN50B	Na 589nm Operator	2 sec 10 sec
No.3	6 (3/3)	Sp.Rot	8.4290	0.0059 0.0000	23.9 50.00 Cell	Tue Mar 08 18:37:56 2016 0.00140g/mL MeOH HMEN50B	Na 589nm Operator	2 sec 10 sec

*+7.4286°*

### S1.12 Optical rotation spectrum of (-)-Myrionsumamide A (1)

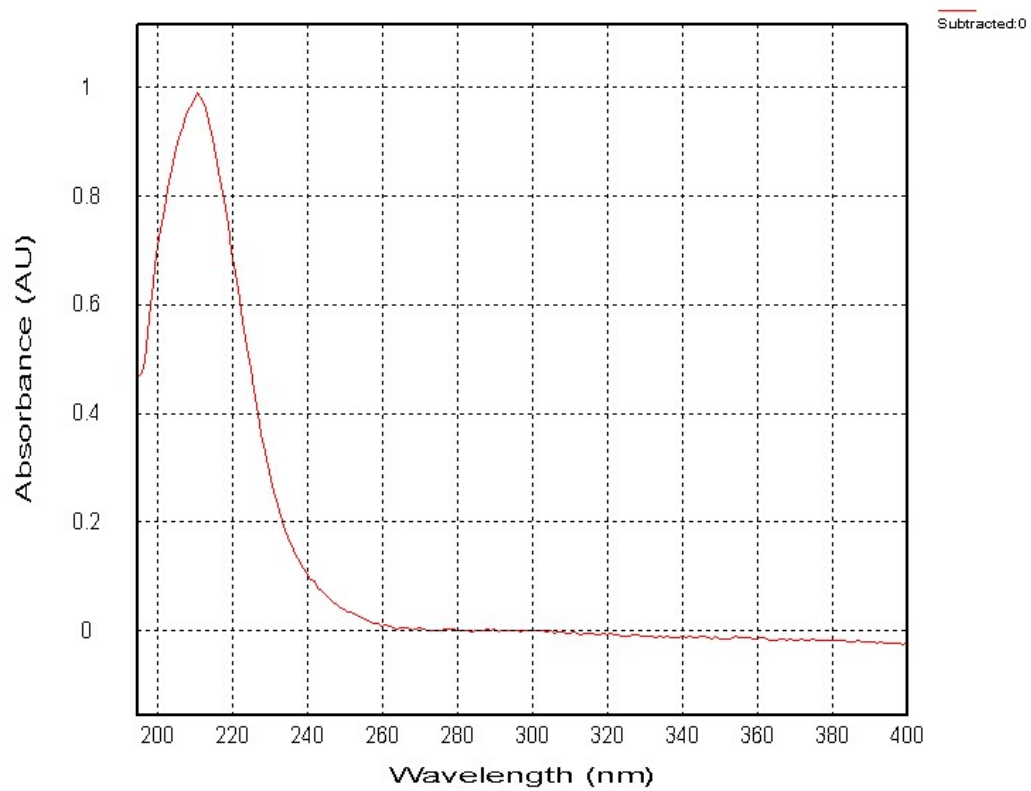
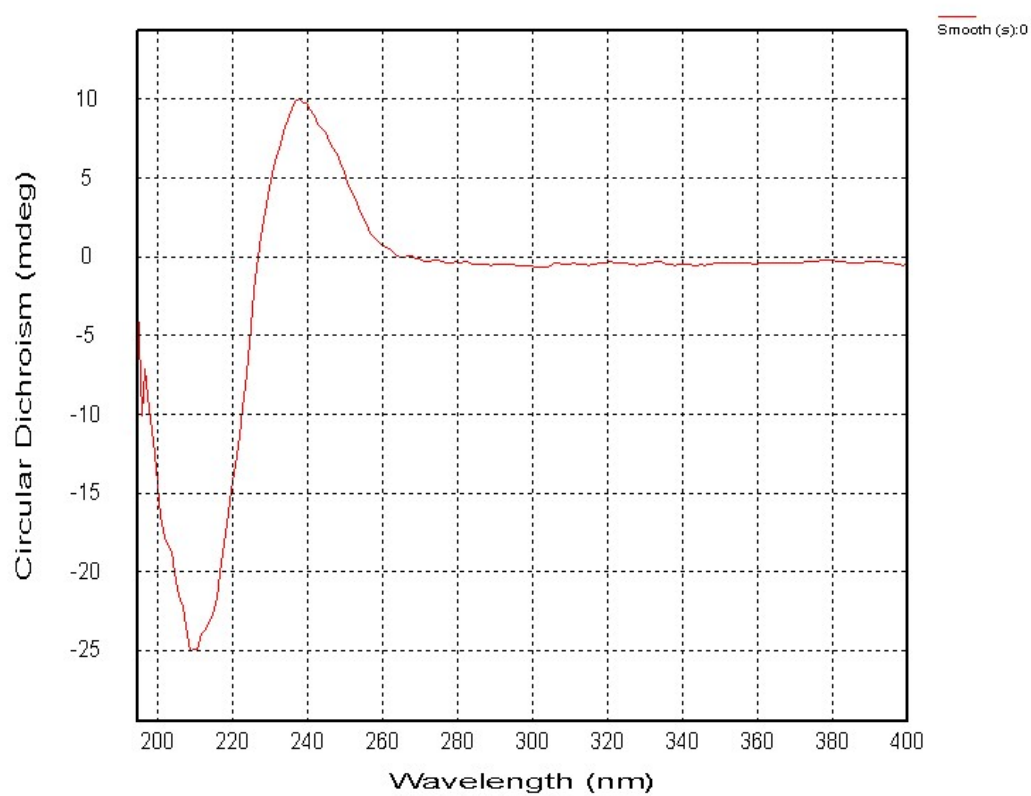
Optical rotation measurement

Model : P-1020 (A060460638)

No.	Sample	Mode	Data	Monitor Blank	Temp. Cell Temp Point	Date Comment Sample Name	Light Filter Operator	Cycle Time Integ Time
No.1	12 (1/3)	Sp.Rot	-16.2500	-0.0026 0.0000	24.9 10.00 Cell	Wed Mar 16 19:23:10 2016 0.00160g/mL MeOH HMEN50A	Na 589nm Operator	2 sec 10 sec
No.2	12 (2/3)	Sp.Rot	-19.3750	-0.0031 0.0000	24.9 10.00 Cell	Wed Mar 16 19:23:23 2016 0.00160g/mL MeOH HMEN50A	Na 589nm Operator	2 sec 10 sec
No.3	12 (3/3)	Sp.Rot	-17.5000	-0.0028 0.0000	24.9 10.00 Cell	Wed Mar 16 19:23:37 2016 0.00160g/mL MeOH HMEN50A	Na 589nm Operator	2 sec 10 sec

*-17.1083°*

### S1.13 CD spectrum of (±)-Myrionsumamide A (1)



ProBinaryX

Attributes :

- Time Stamp :Wed Dec 23 14:24:44 2015

- File ID : {61AE1CDE-D9D1-4edc-A85B-DA2E8956BA65}

- Is CFR Compliant : false

- Original unaltered data

Remarks:

- HV (CDDC channel): 0 v

- Time per point: 1 s

- Description: Sample 1

- Concentration: 0.3040mg/mL MeOH

- Pathlength: 1 mm

Settings:

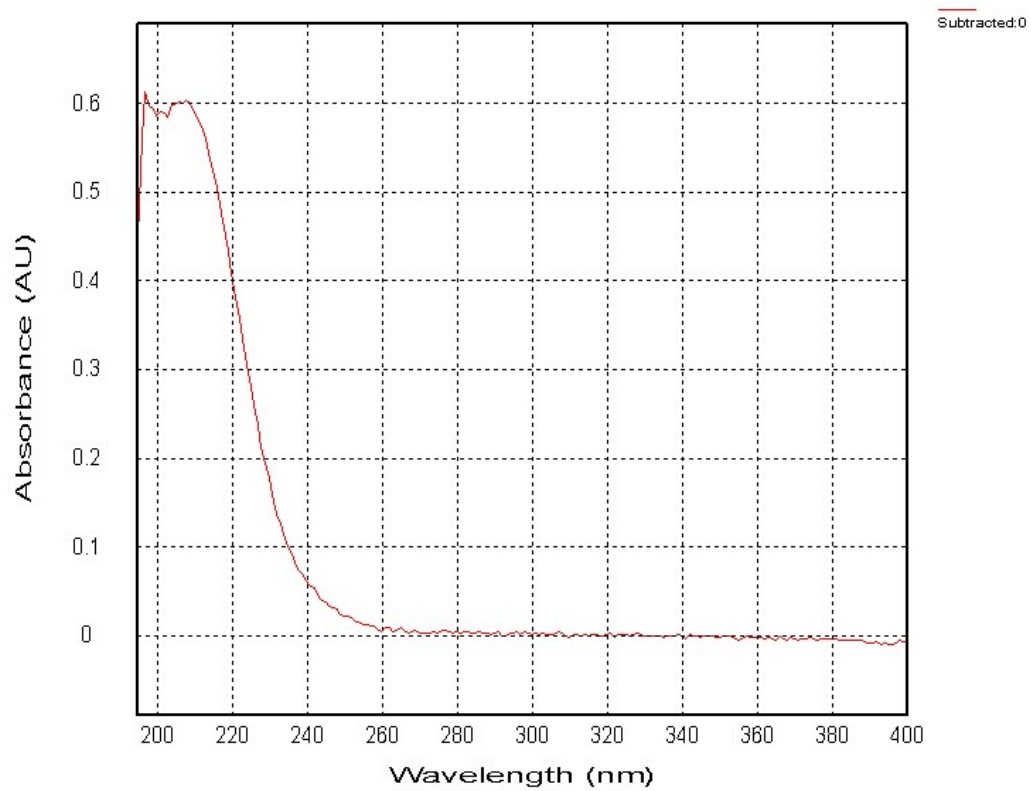
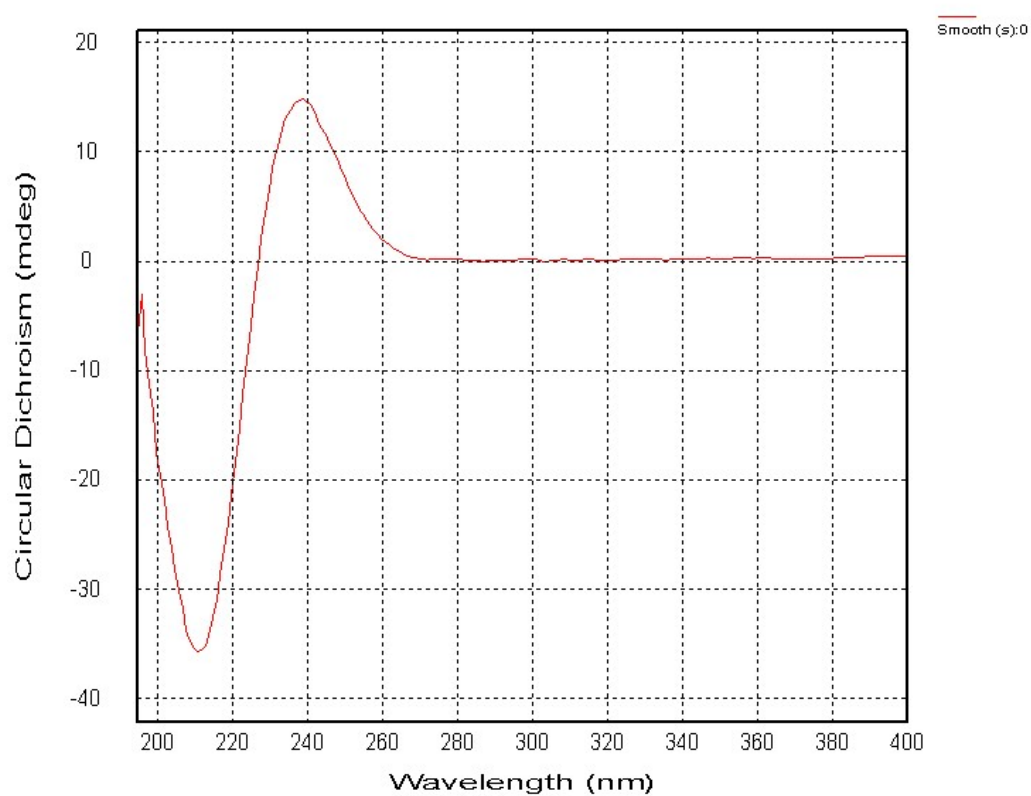
- Time-per-point: 1s (25us x 40000)

- Wavelength: 195nm - 400nm

- Step Size: 1nm

- Bandwidth: 1nm

### S1.14 CD spectrum of (+)-Myrionsumamide A (1)



ProBinaryX

Attributes :

- Time Stamp :Thu Mar 10 13:34:43 2016
- File ID : {5197E311-3F0B-42b9-AFF0-820D92AE8091}
- Is CFR Compliant : false
- Original unaltered data

Remarks:

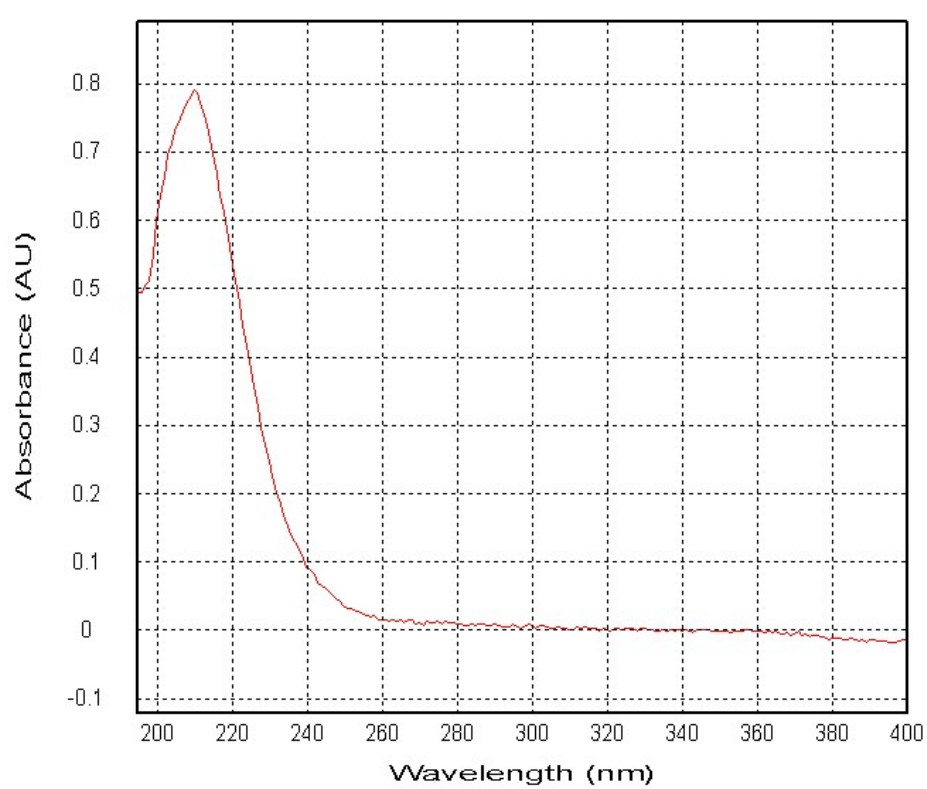
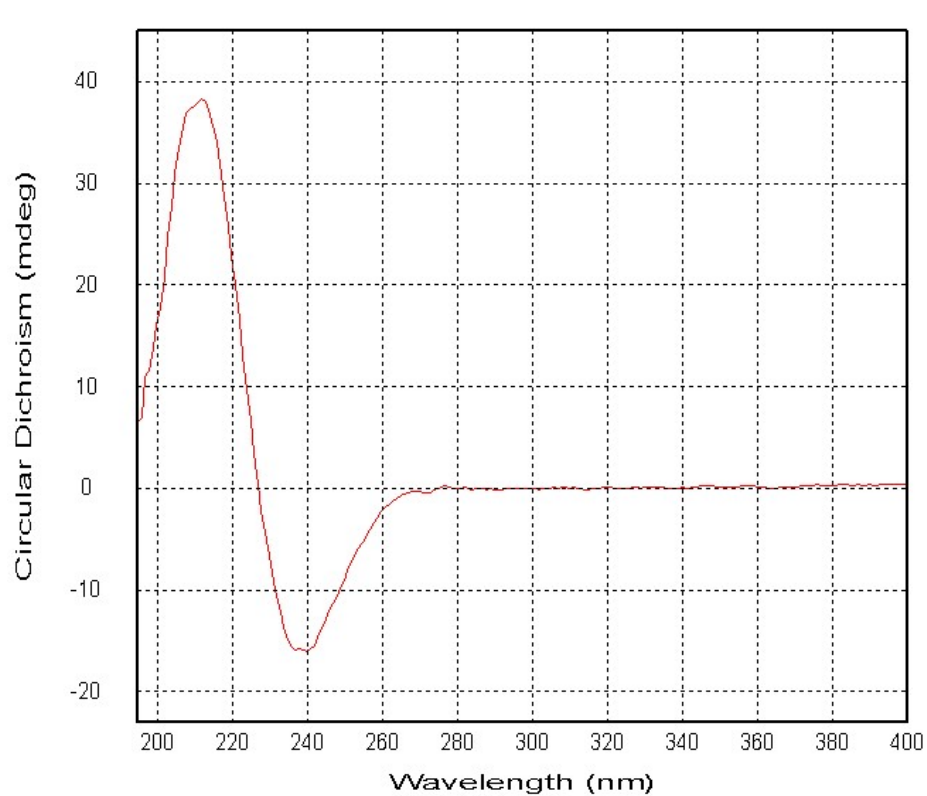
- HV (CDDC channel): 0 v
- Time per point: 1 s
- Description: Sample 1
- Concentration: 0.4200mg/mL MeOH
- Pathlength: 1 mm

Settings:

- Time-per-point: 1s (25us x 40000)
- Wavelength: 195nm - 400nm
- Step Size: 1nm
- Bandwidth: 2nm



### S1.15 CD spectrum of (-)-Myrionsumamide A (1)



File: CD HMEN50A-1mm(195-400)16031702.dsx

ProBinaryX

Attributes :

- Time Stamp :Thu Mar 17 09:43:46 2016

- File ID : {532A55E5-EEE9-4cf5-85DD-F65A8CA1090F}

- Is CFR Compliant : false

- Original unaltered data

Remarks:

- HV (CDDC channel): 0 v

- Time per point: 1 s

- Description: Sample 1

- Concentration: 0.5120mg/mL MeOH

- Pathlength: 1 mm

Settings:

- Time-per-point: 1s (25us x 40000)

- Wavelength: 195nm - 400nm

- Step Size: 1nm

- Bandwidth: 1nm