

## Supporting Information

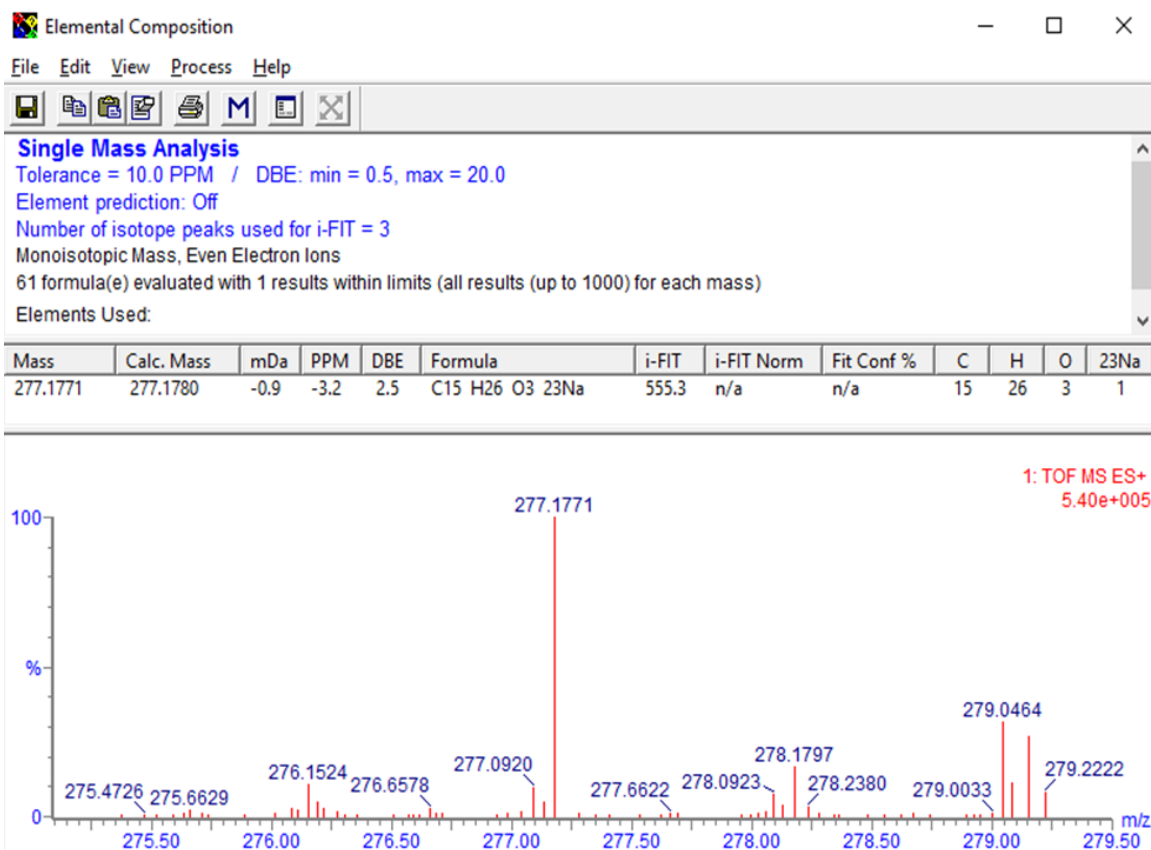
*Rec. Nat. Prod.* X:X (202X) XX-XX

### Trichocarotin N: a New Carotane Sesquiterpene from the Marine-Derived Fungus *Trichoderma virens* QD-11

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Table of Contents	Page
Figure S1: HR-ESI-MS spectrum of <b>1</b>	2
Figure S2: <sup>1</sup> H-NMR (500 MHz, CD <sub>3</sub> OD) spectrum of <b>1</b>	3
Figure S3: Enlarged <sup>1</sup> H-NMR (500 MHz, CD <sub>3</sub> OD) spectrum of <b>1</b>	4
Figure S4: <sup>13</sup> C-NMR and DEPT (125 MHz, CD <sub>3</sub> OD) spectra of <b>1</b>	5
Figure S5: Enlarged <sup>13</sup> C-NMR and DEPT (125 MHz, CD <sub>3</sub> OD) spectra of <b>1</b>	6
Figure S6: HSQC spectrum of <b>1</b>	7
Figure S7: Enlarged HSQC spectrum of <b>1</b>	8
Figure S8: Enlarged HSQC spectrum of <b>1</b>	9
Figure S9: HMBC spectrum of <b>1</b>	10
Figure S10: Enlarged HMBC spectrum of <b>1</b>	11
Figure S11: <sup>1</sup> H- <sup>1</sup> H COSY spectrum of <b>1</b>	12
Figure S12: NOESY spectrum of <b>1</b>	13
Figure S13: SciFinder search results of <b>1</b>	14



**Figure S1:** HR-ESI-MS spectrum of **1**

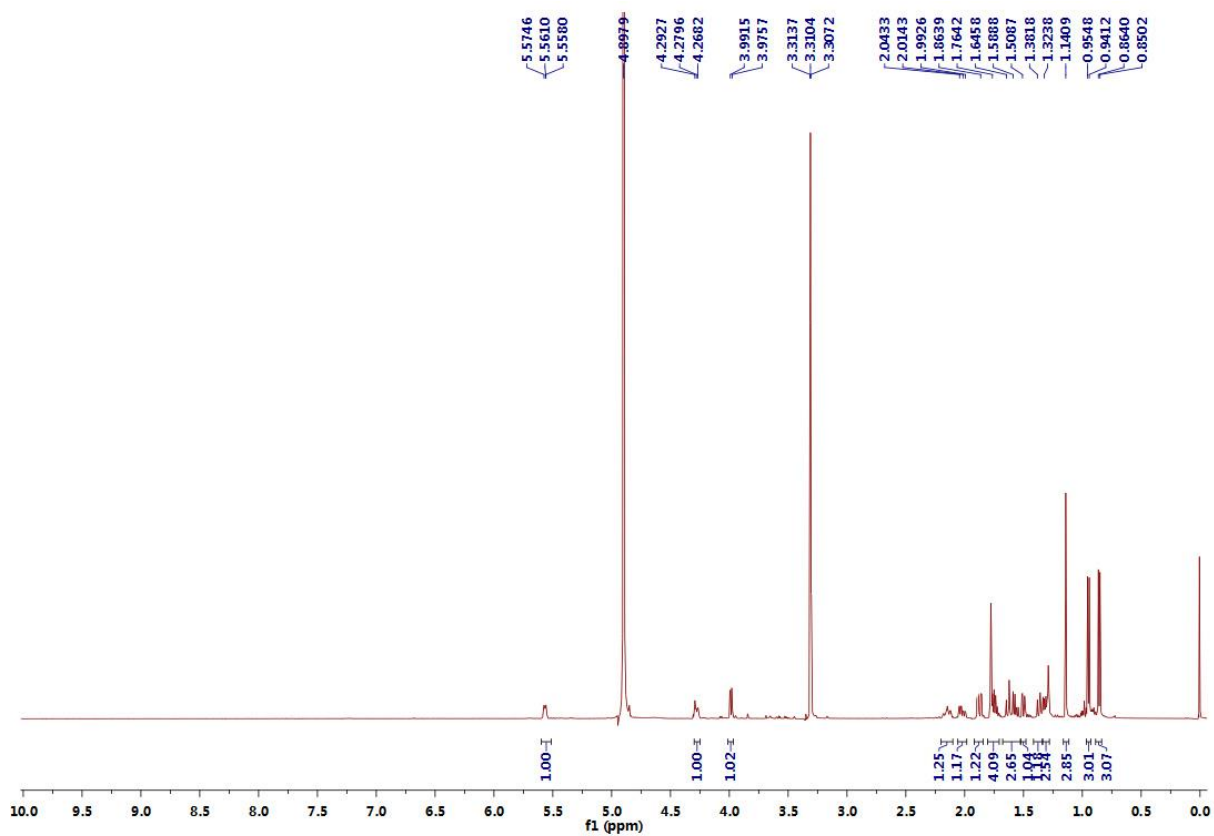
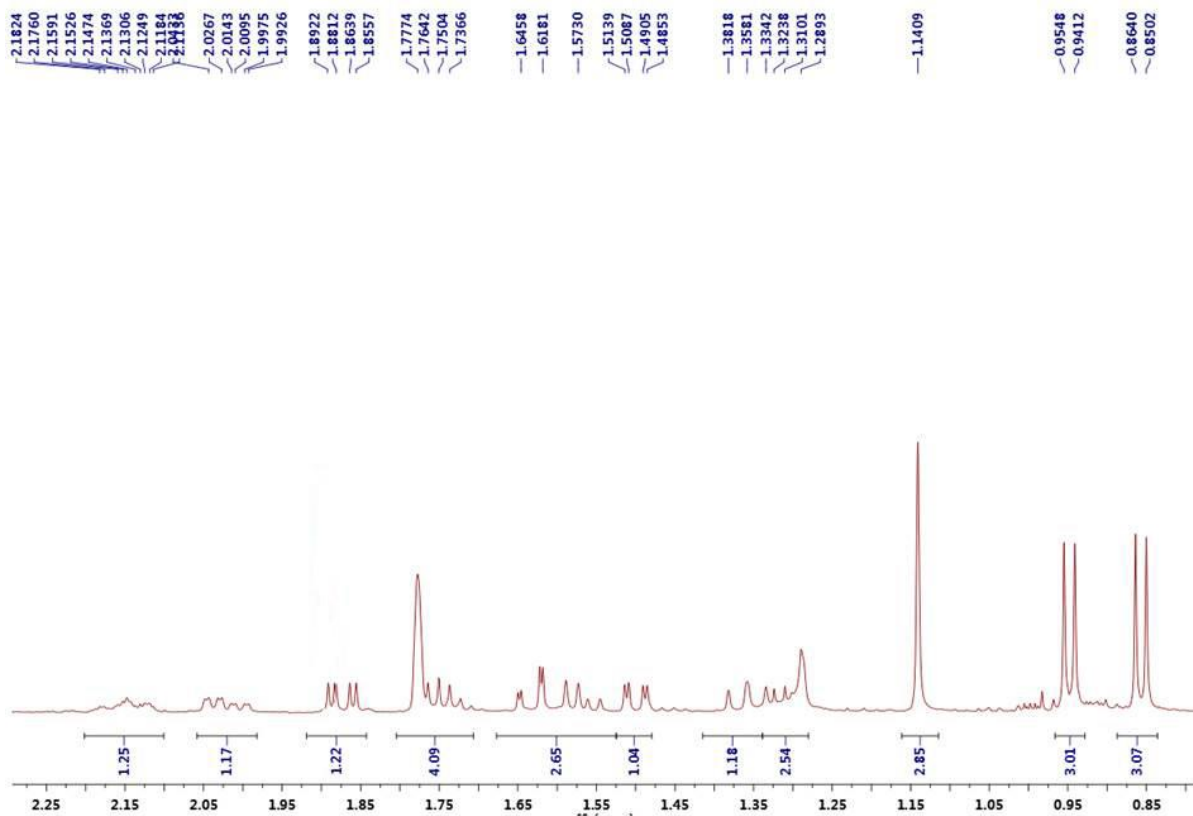
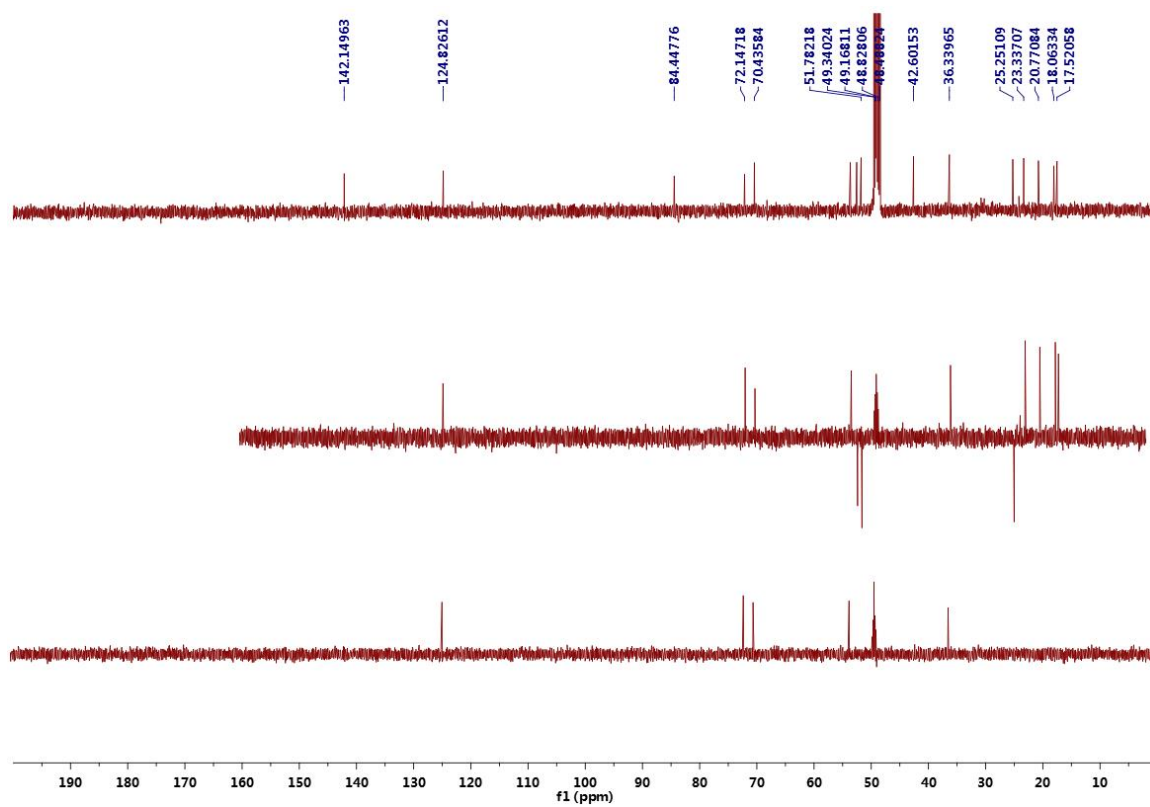


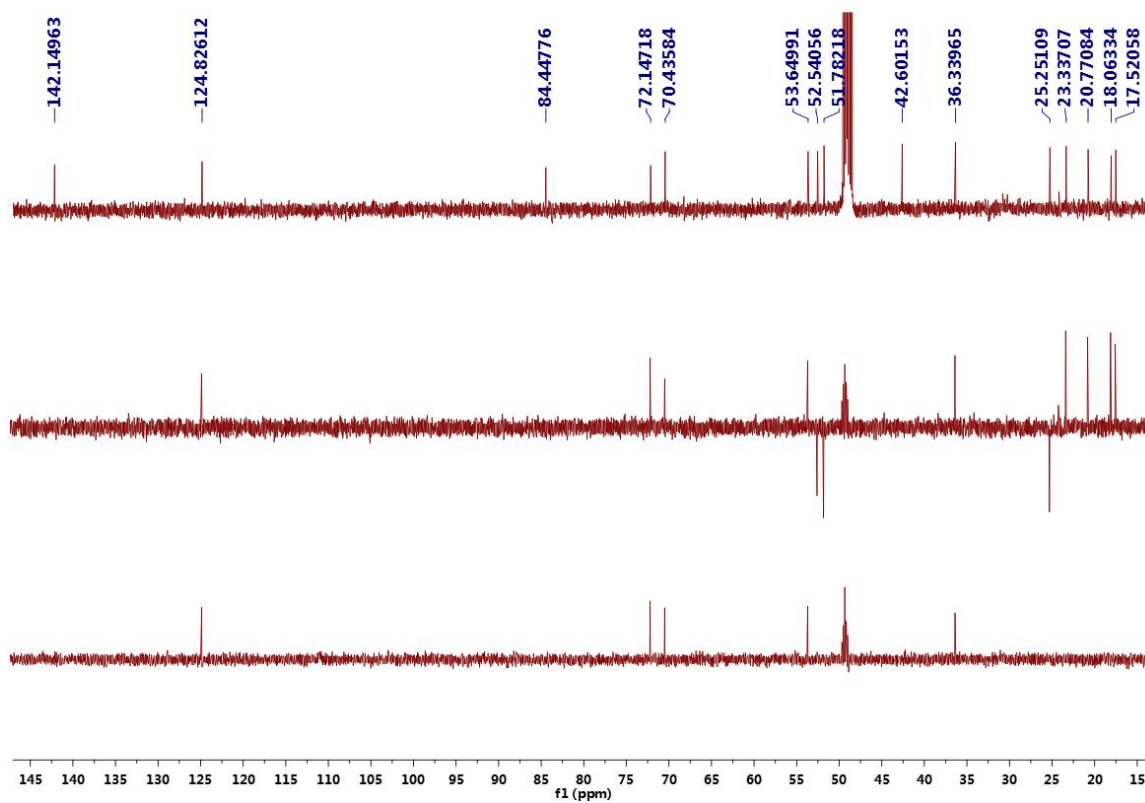
Figure S2:  $^1\text{H-NMR}$  (500 MHz,  $\text{CD}_3\text{OD}$ ) spectrum of **1**



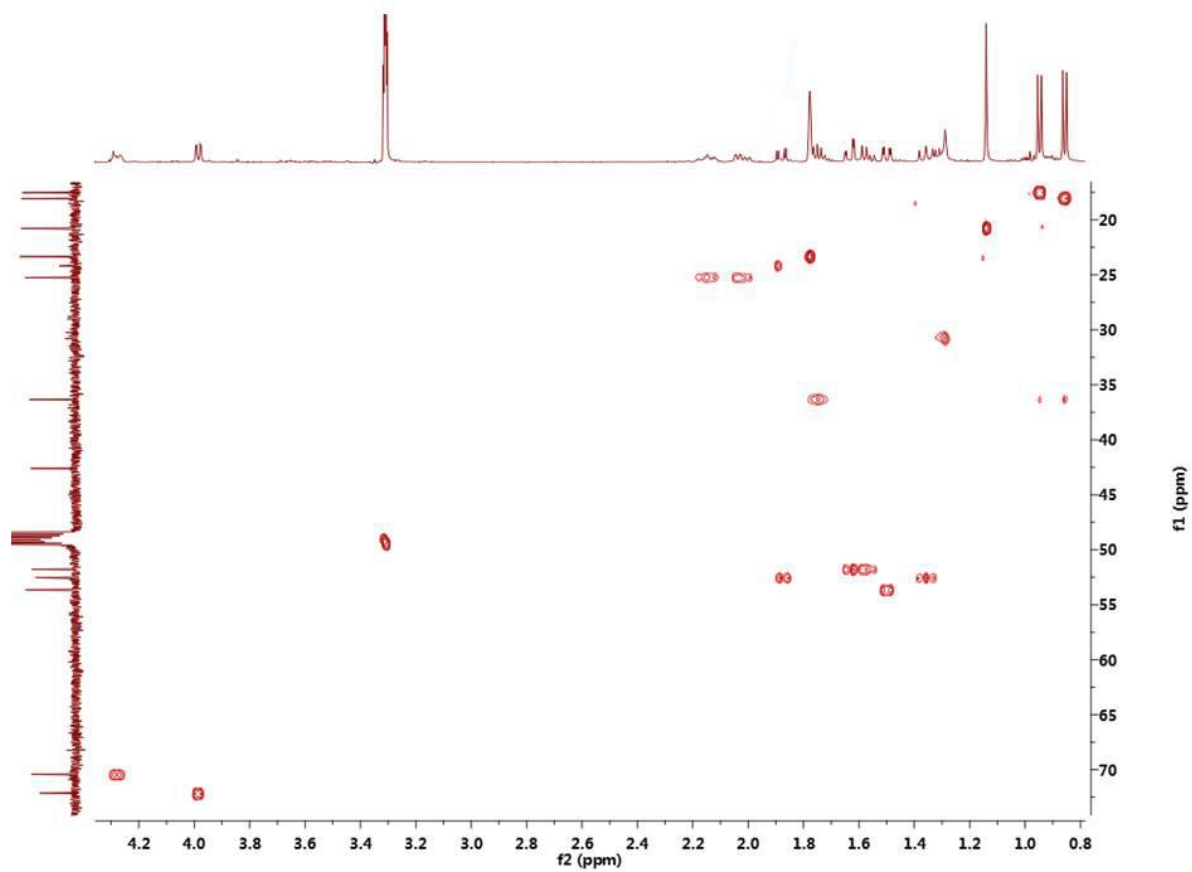
**Figure S3:** Enlarged  $^1\text{H-NMR}$  (500 MHz,  $\text{CD}_3\text{OD}$ ) spectrum of **1**



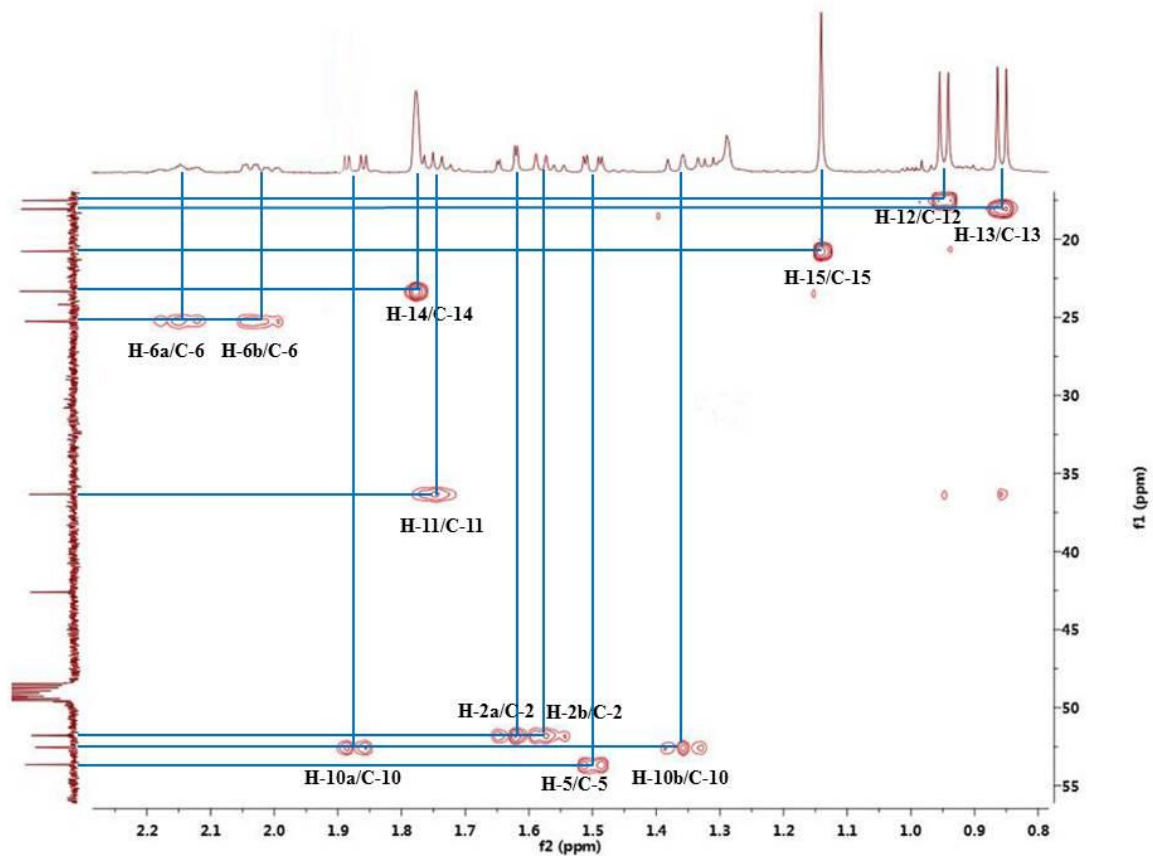
**Figure S4:**  $^{13}\text{C}$ -NMR and DEPT (125 MHz,  $\text{CD}_3\text{OD}$ ) spectra of **1**



**Figure S5:** Enlarged  $^{13}\text{C}$ -NMR and DEPT (125 MHz,  $\text{CD}_3\text{OD}$ ) spectra of **1**

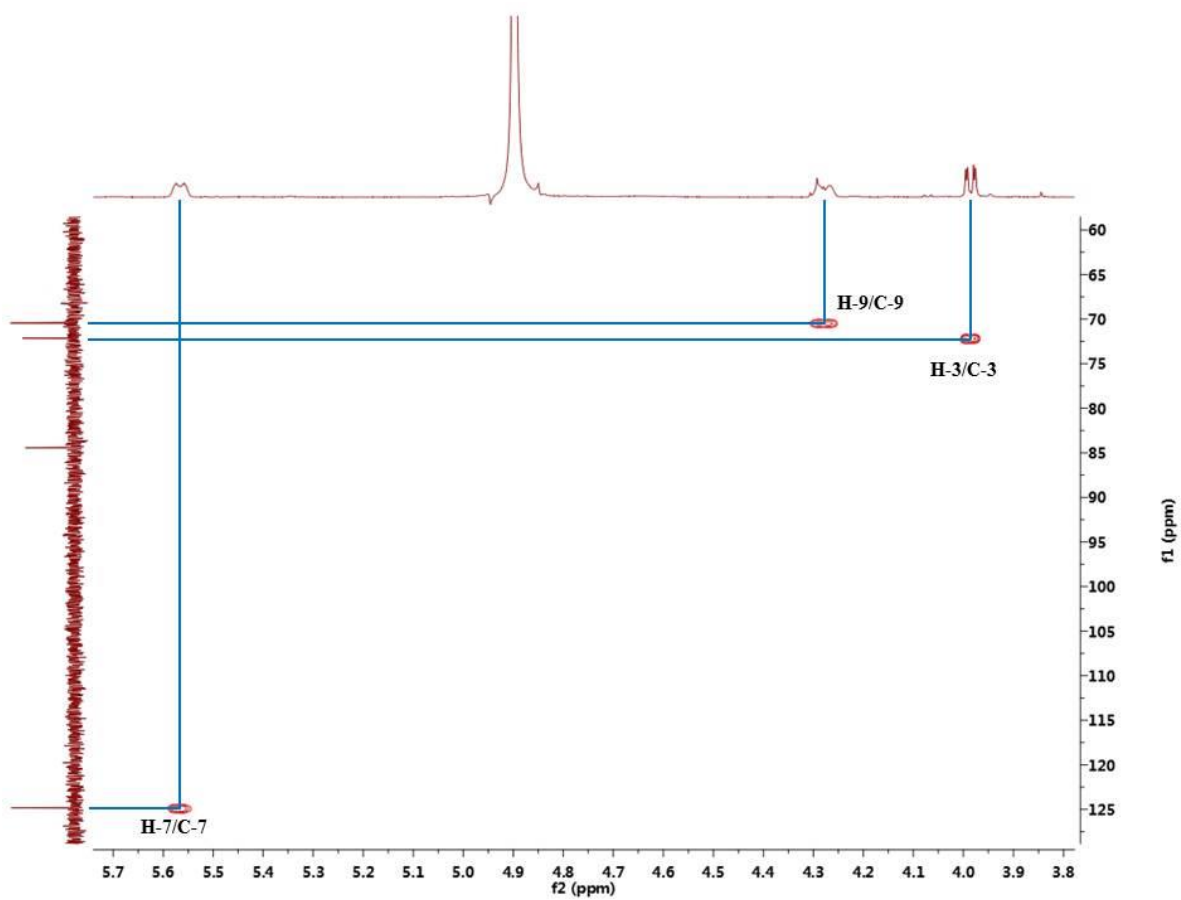


**Figure S6:** HSQC spectrum of **1**

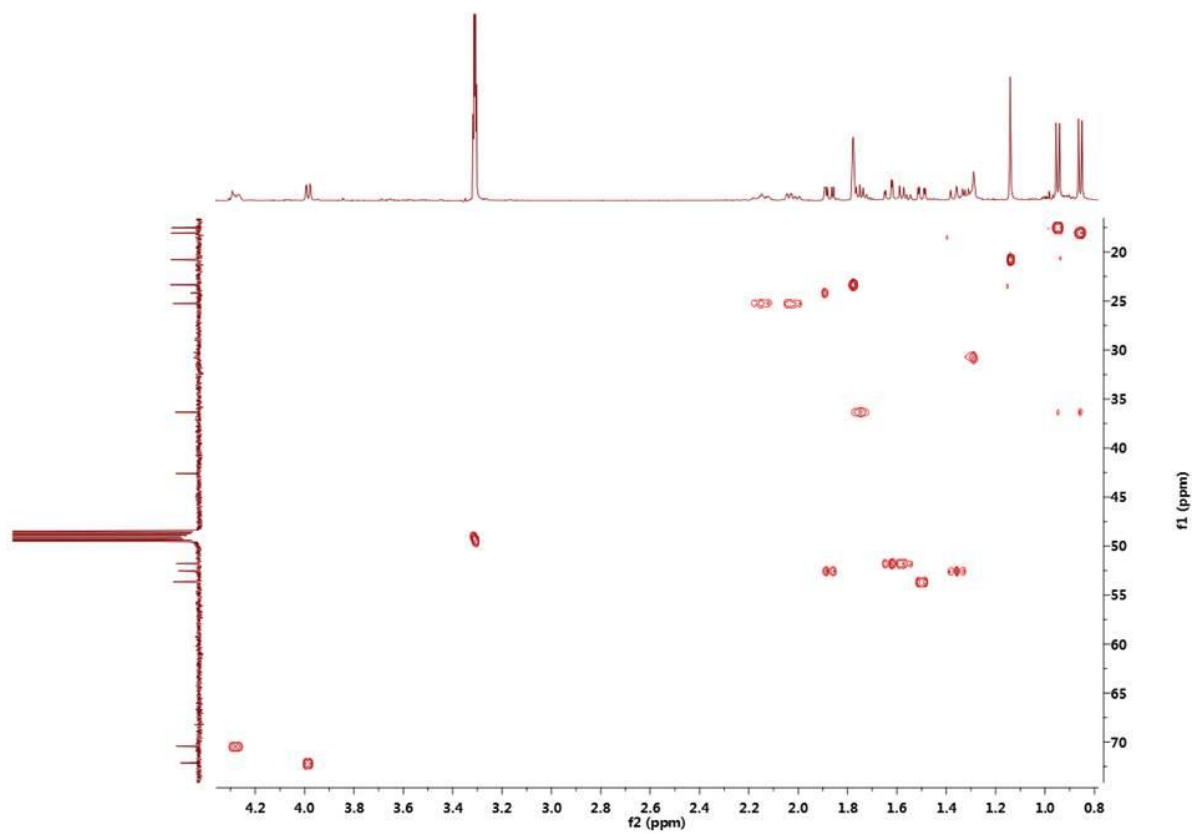


**Figure S7:** Enlarged HSQC spectrum of **1**

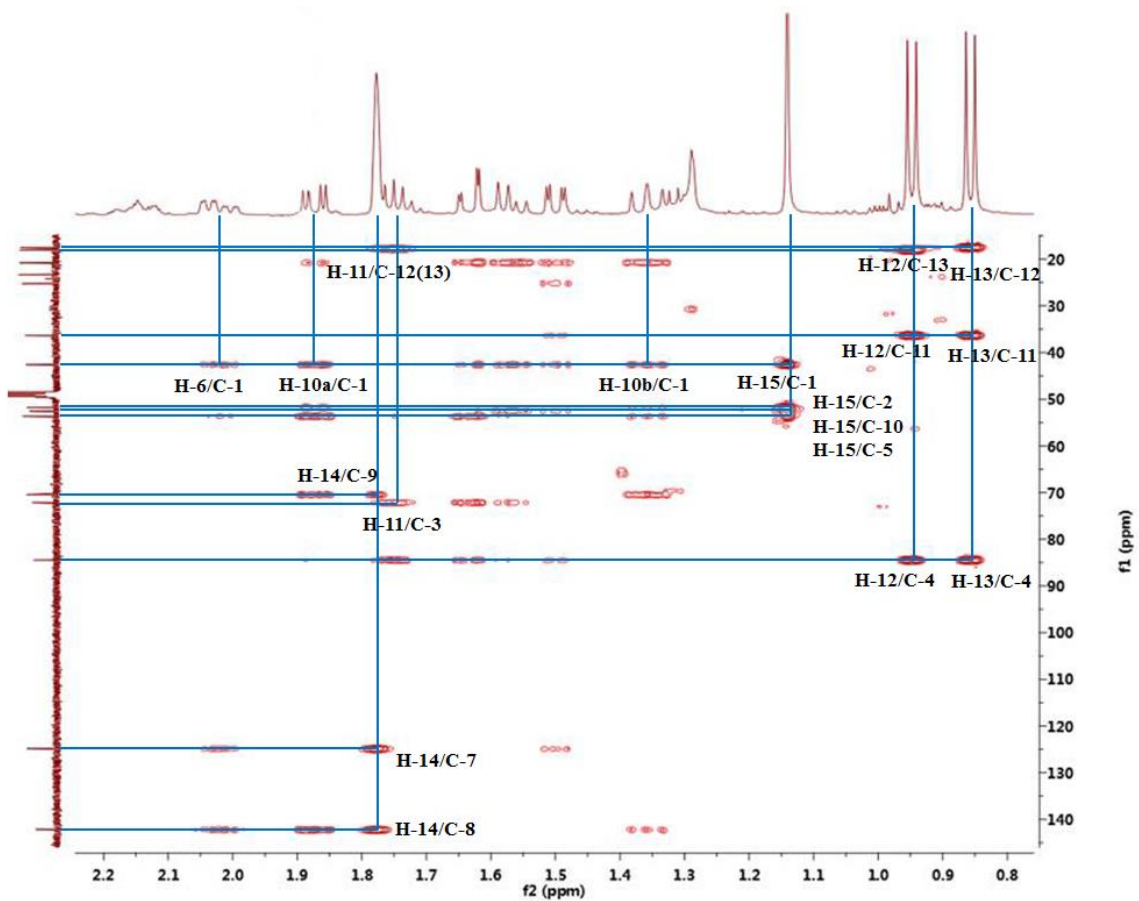




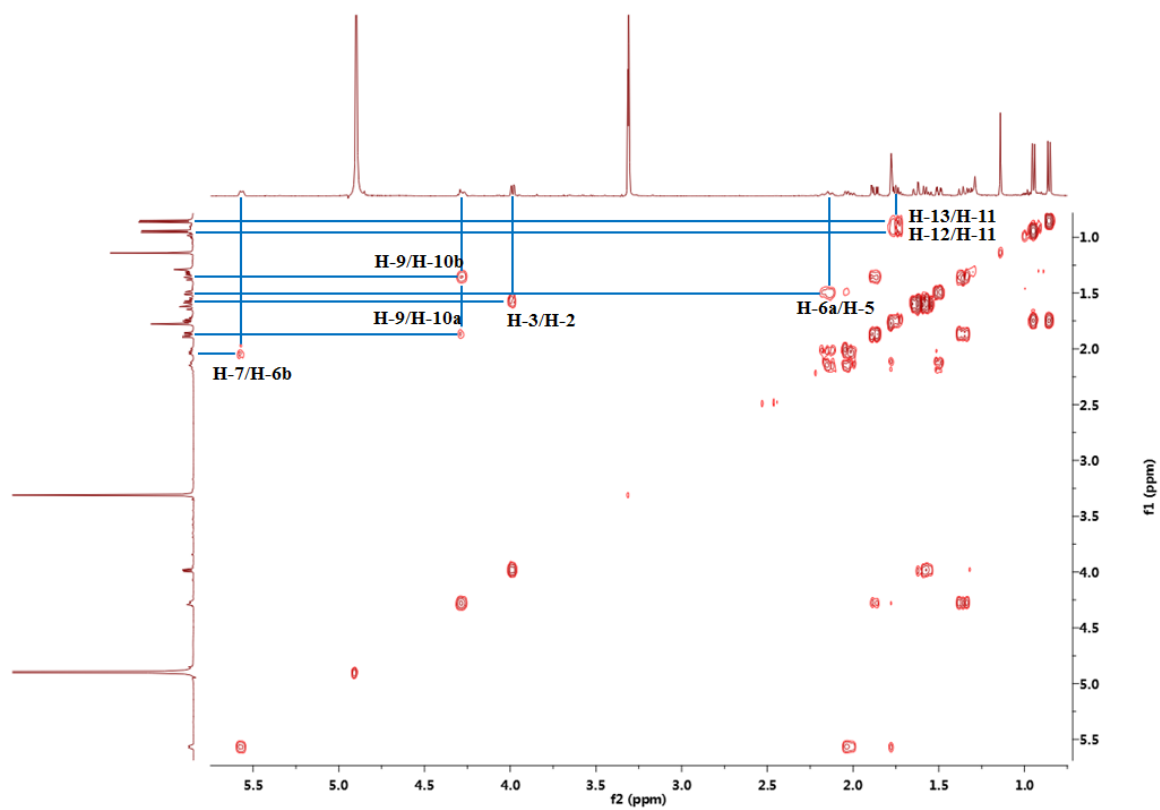
**Figure S8:** Enlarged HSQC spectrum of **1**



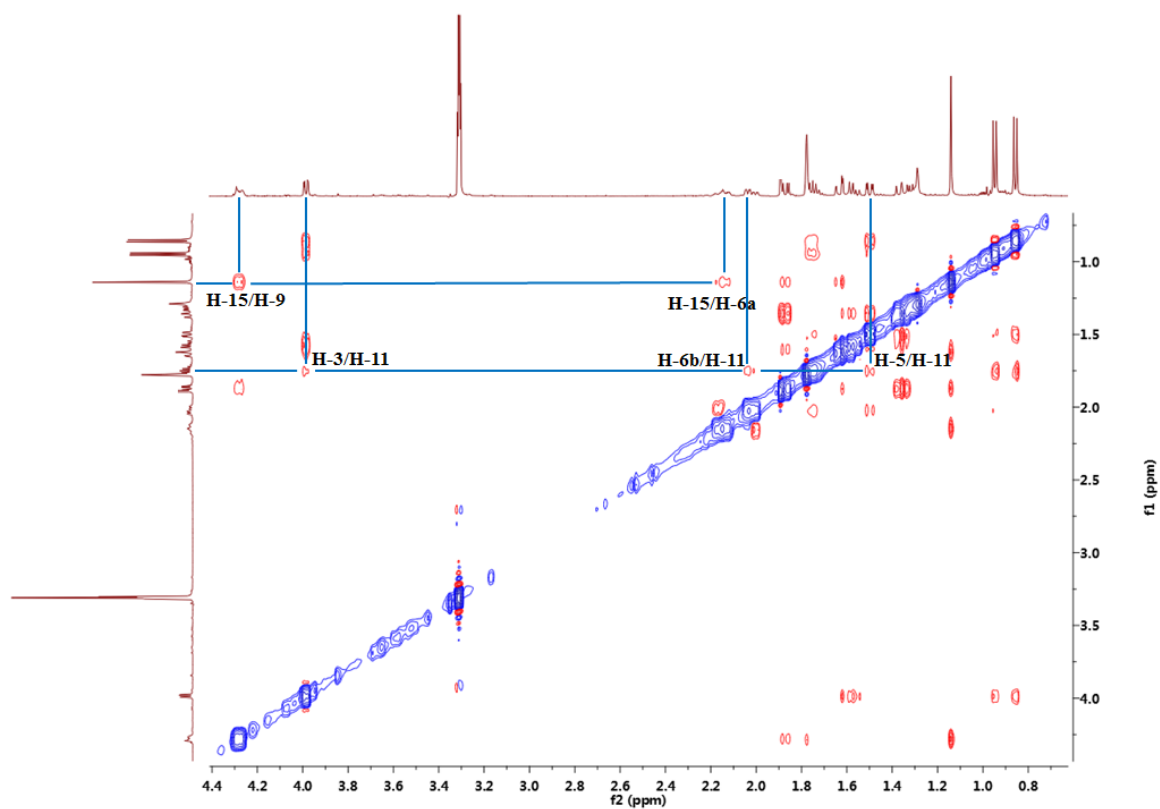
**Figure S9:** HMBC spectrum of **1**



**Figure S10:** Enlarged HMBC spectrum of **1**



**Figure S11:**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of **1**



**Figure S12:** NOESY spectrum of **1**

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<input type="checkbox"/> 95-98	3
<input type="checkbox"/> 90-94	15
<input type="checkbox"/> 85-89	44
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<input type="checkbox"/> 65-69	8268
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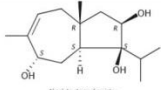
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- Occurrence
- Properties

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1. 1462936-10-2

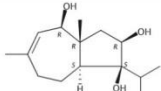


Absolute stereochemistry

C13 H26 O3  
1,2,3,3a,4,7,8,8a-octahydro-3a,6-dimethyl-1-(1-methylthio)-1,3,2,4,6,7,8a-dioxepine

Key Physical Properties

Score: 95  
2. 225809-99-1

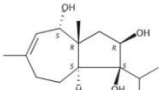


Absolute stereochemistry\_Rotation (-)

C13 H26 O3  
1,2,3,3a,4,7,8,8a-octahydro-3a,6-dimethyl-1-(1-methylthio)-1,3,2,4,6,7,8a-dioxepine

Key Physical Properties

Score: 95  
2. 1462936-09-9



Absolute stereochemistry

C13 H26 O3  
1,2,3,3a,4,7,8,8a-octahydro-3a,6-dimethyl-1-(1-methylthio)-1,3,2,4,6,7,8a-dioxepine

Key Physical Properties

Figure S13: SciFinder search results of 1