Supporting Information

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

Trichothecene Sesquiterpenes with Anti-osteosarcoma Cytotoxicity from the Fungus *Fusarium* sp. XPW68

Huihuang Peng [1,#], Rui Chen[2,#], Yanxia Zhang[3], Linsa Zhou[4,*] and Jie Lin [2,*]

[1]*Department of Hand and Foot Surgery, The Third Affiliated Hospital of Wenzhou Medical University (Ruian People's Hospital), Ruian 325200, China*

[2]*Department of Pharmacy, The Third Affiliated Hospital of Wenzhou Medical University (Ruian People's Hospital), Ruian 325200, China*

[3]*Industrial Technology Foundation Public Service Platform, Shandong Institute for Food and Drug Control, Jinan 250101, China*

[4]*Department of Plastic and Burns Surgery, The Second Affiliated Hospital of Shantou University Medical College, Shantou 515041, China*

Table of Contents **Page**

* Corresponding authors: E-mails: zhoulinsa@163.com (L. Zhou) ; rahosyaoxuelinjie@163.com (J. Lin)

[#] These authors contributed equally to the study.

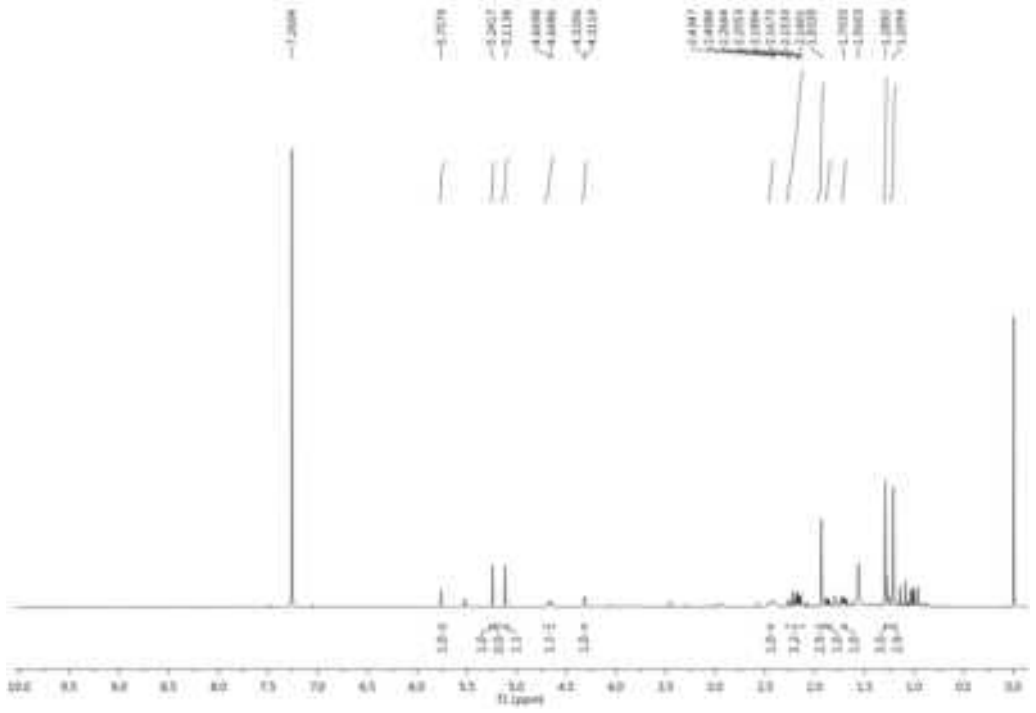


Figure S: ^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **1**

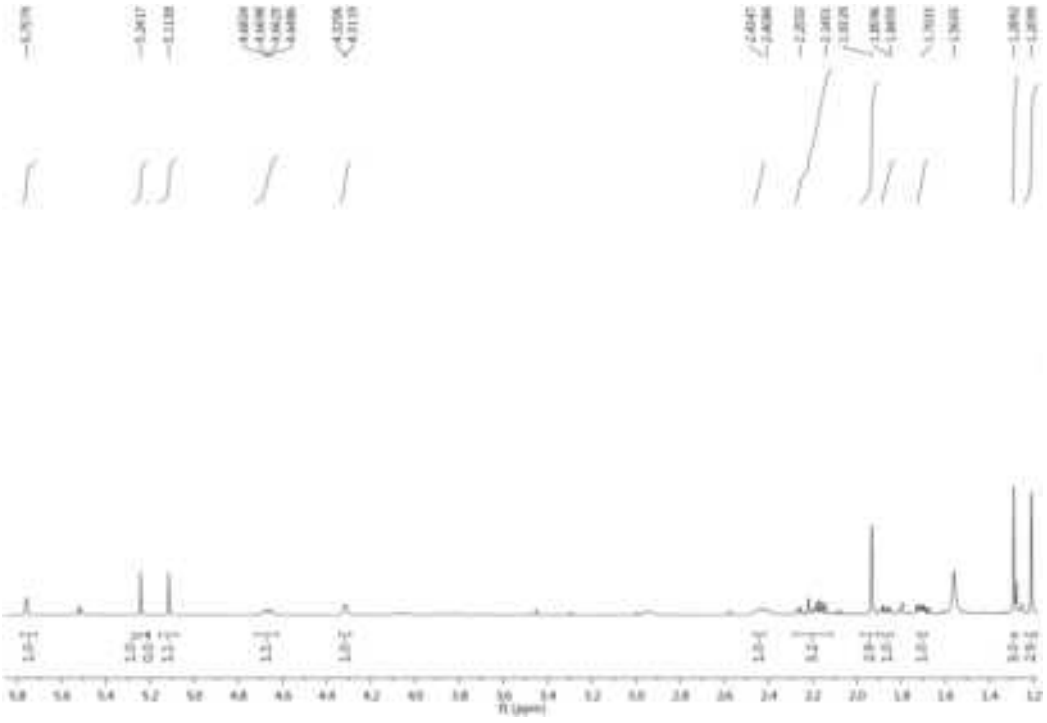


Figure S2: Enlarged ^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **1**

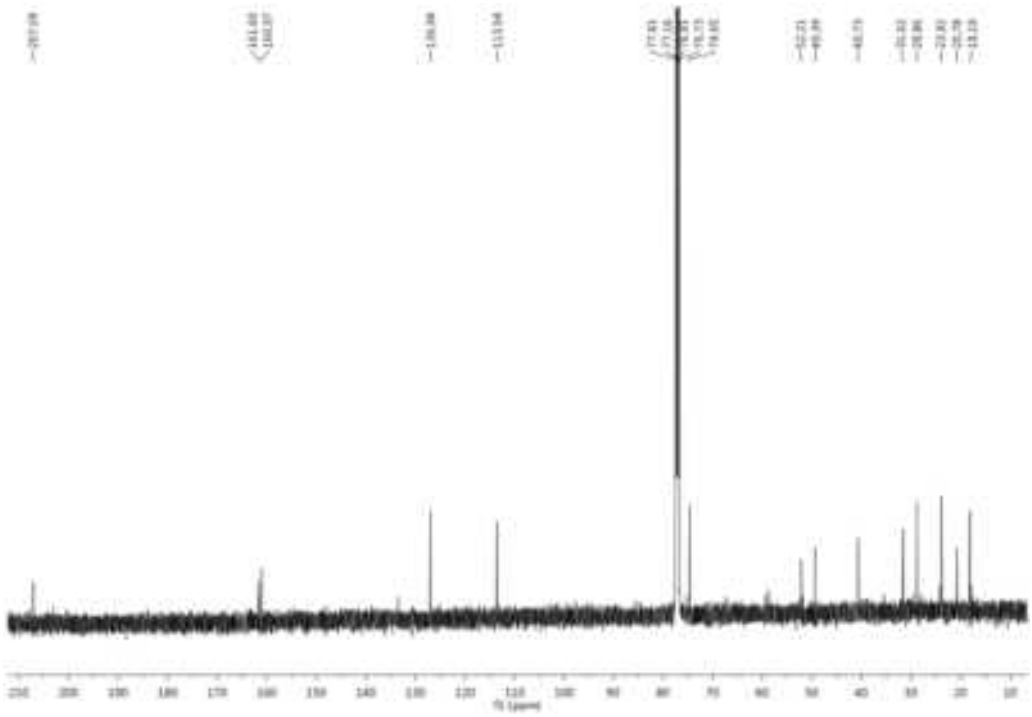


Figure S3: ^{13}C-NMR (125 MHz, $CDCl_3$) spectrum of **1**

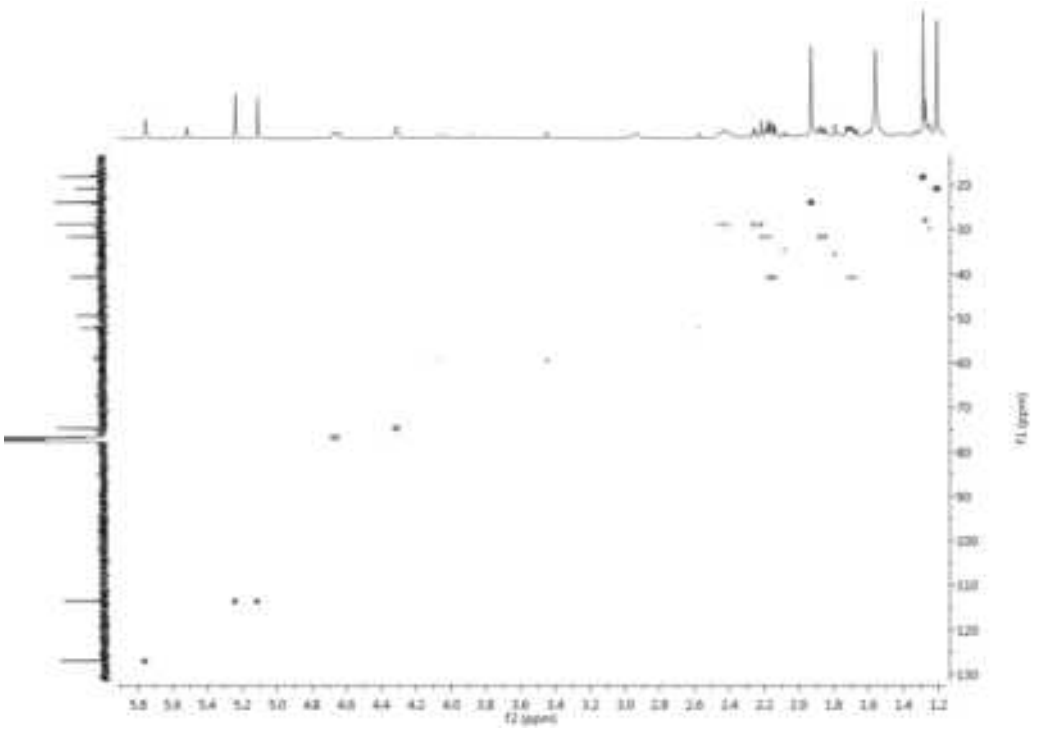


Figure S4: HSQC spectrum of **1**

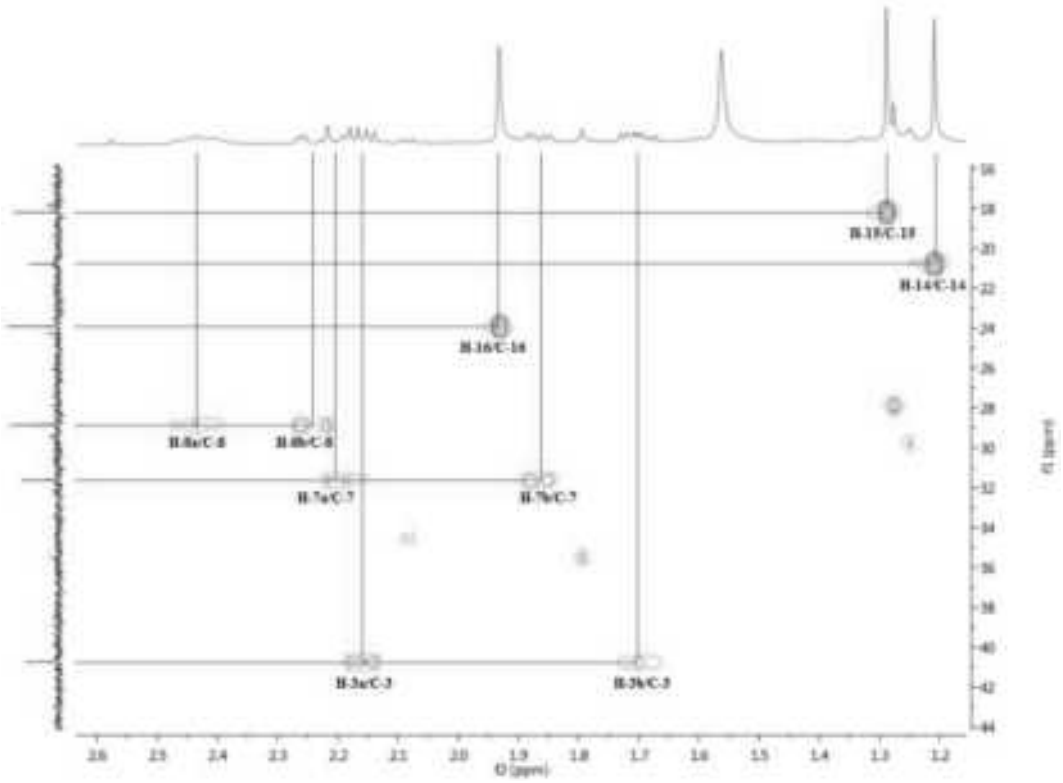


Figure S5: Enlarged HSQC spectrum of **1**

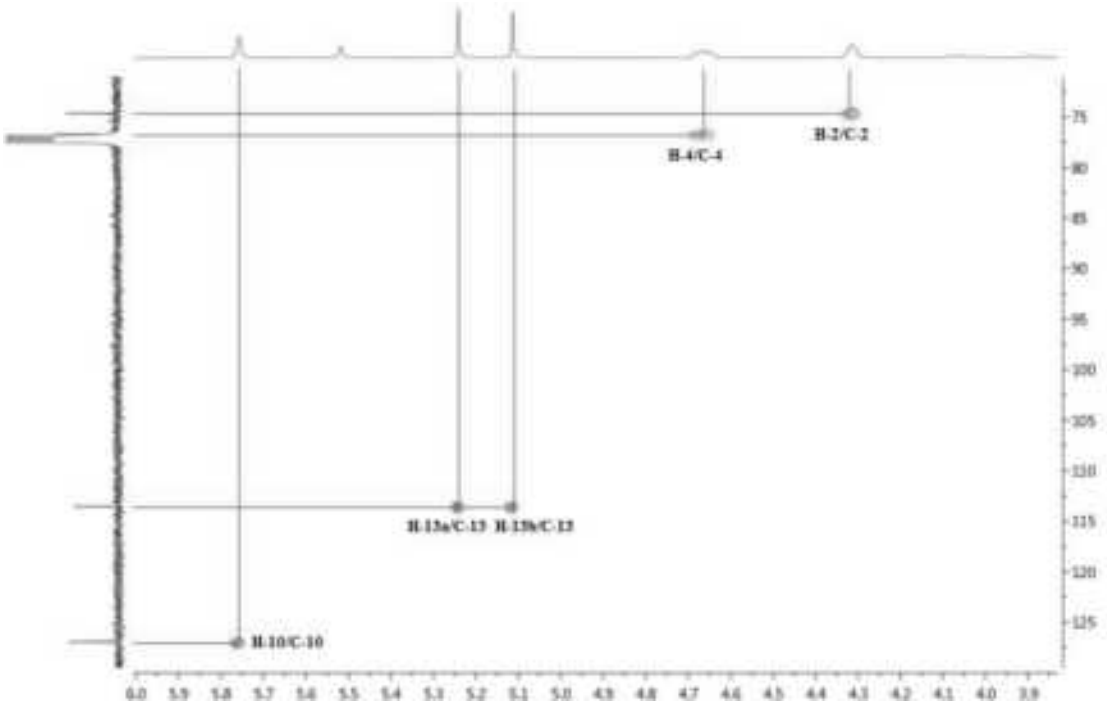


Figure S6: Enlarged HSQC spectrum of **1**

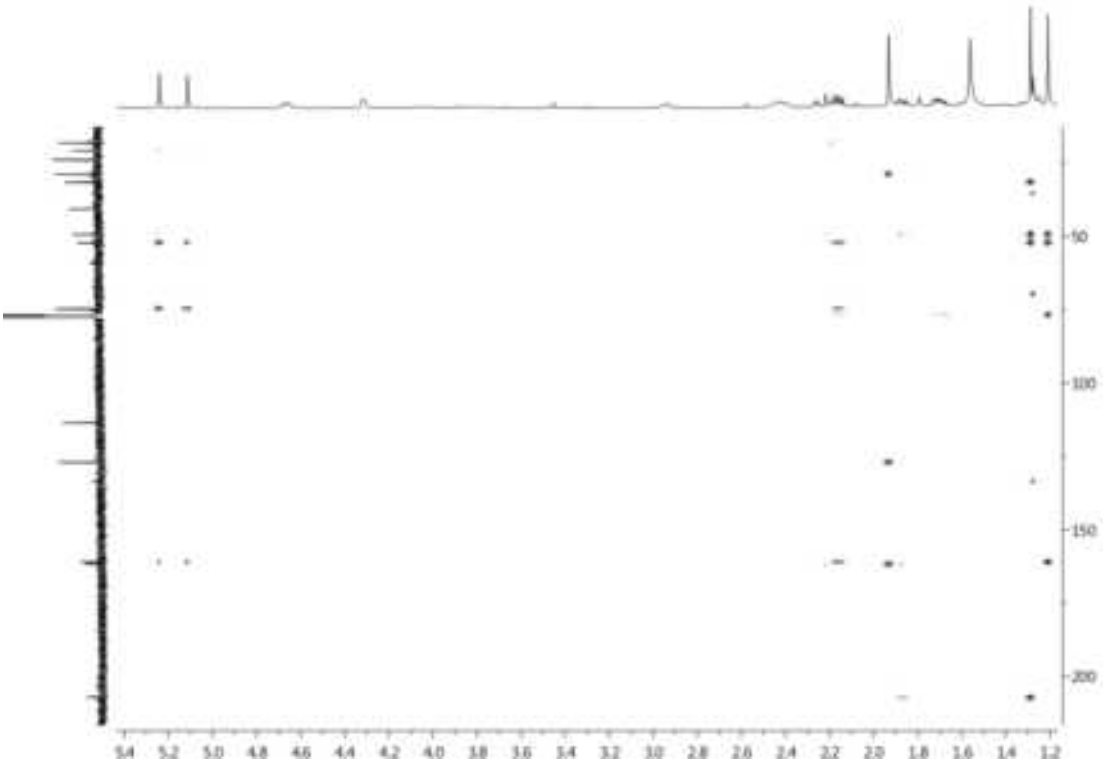


Figure S7: HMBC spectrum of **1**

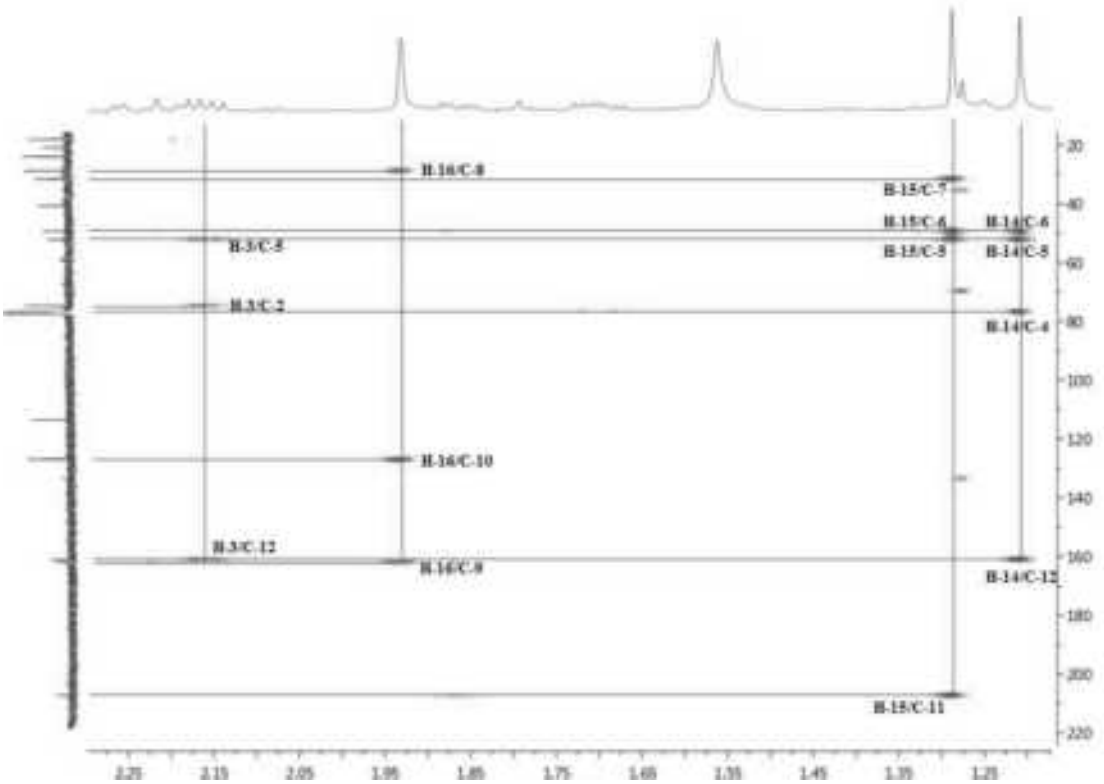


Figure S8: Enlarged HMBC spectrum of **1**

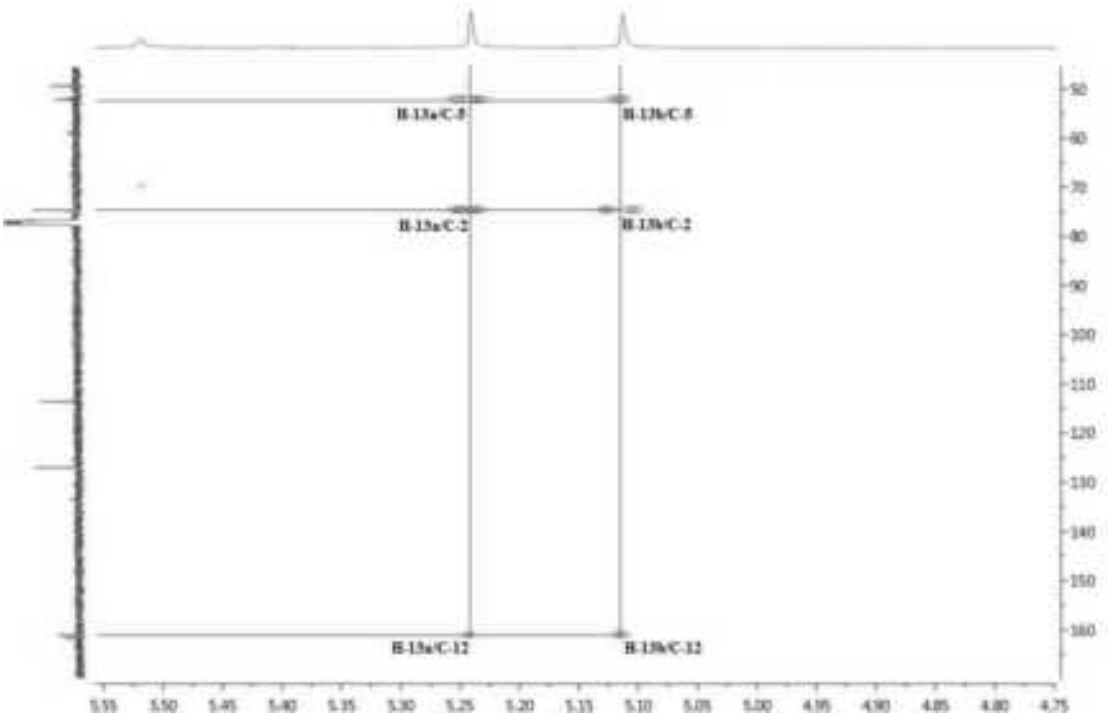


Figure S9: Enlarged HMBC spectrum of **1**

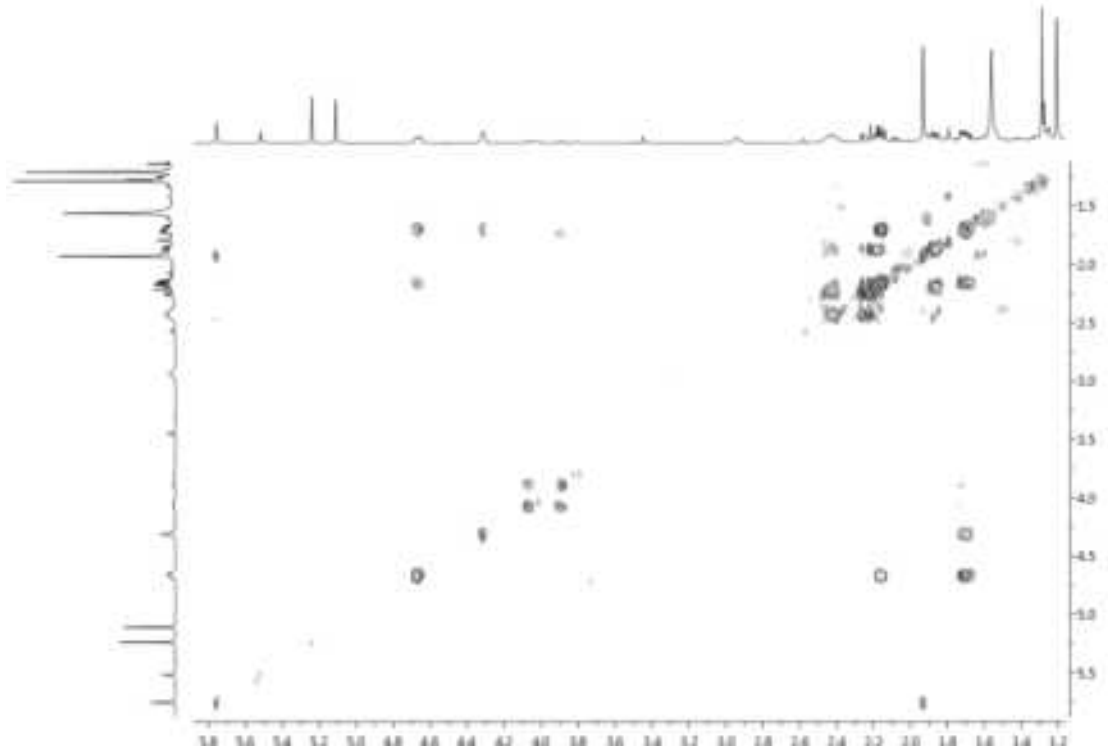


Figure S10: ^{1}H-^{1}H COSY spectrum of **1**

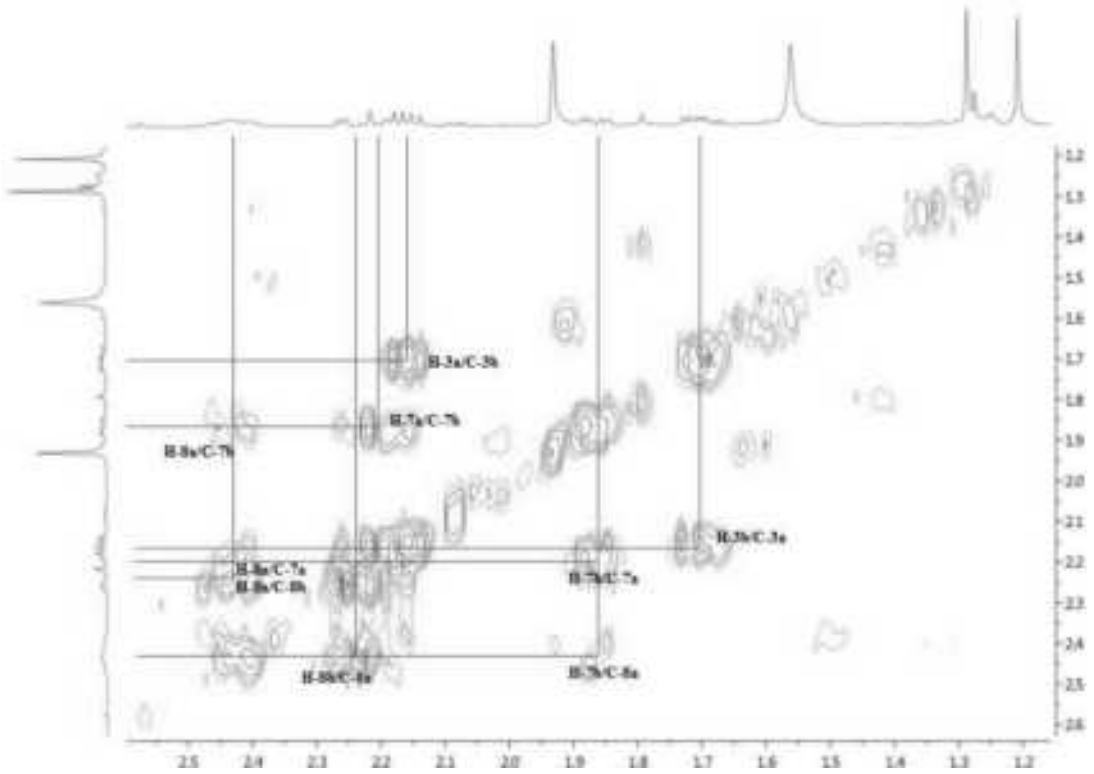


Figure S11: Enlarged ^{1}H-^{1}H COSY spectrum of **1**

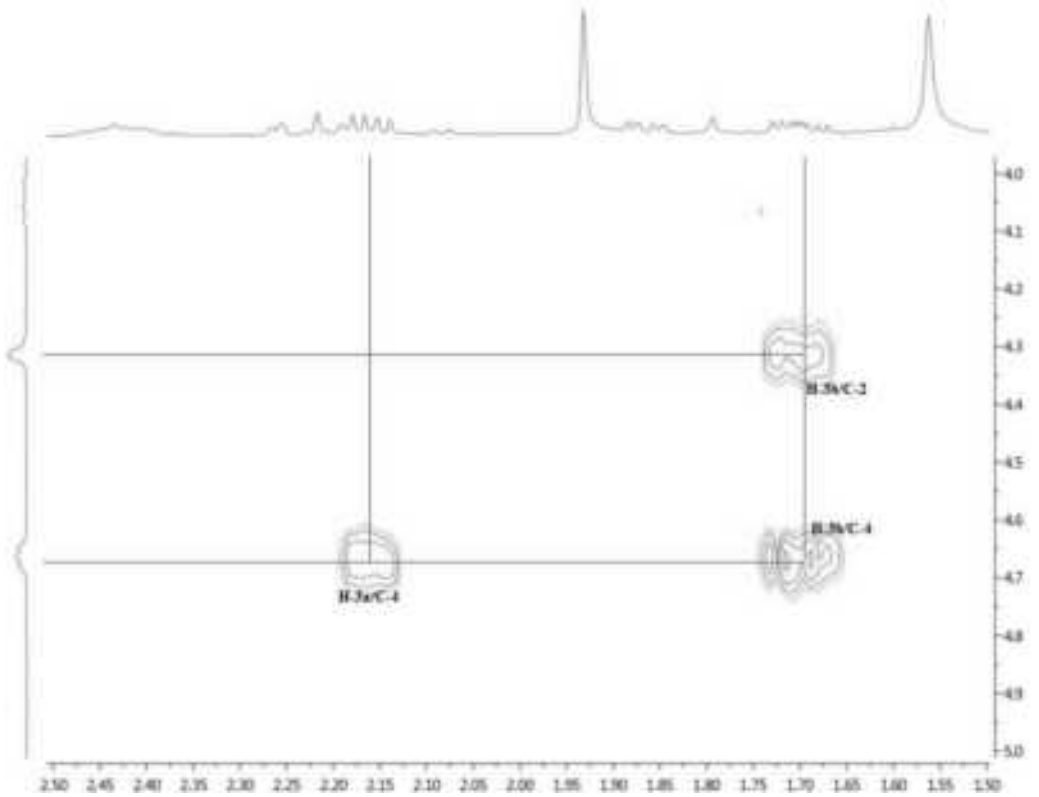


Figure S12: Enlarged ^{1}H-^{1}H COSY spectrum of **1**

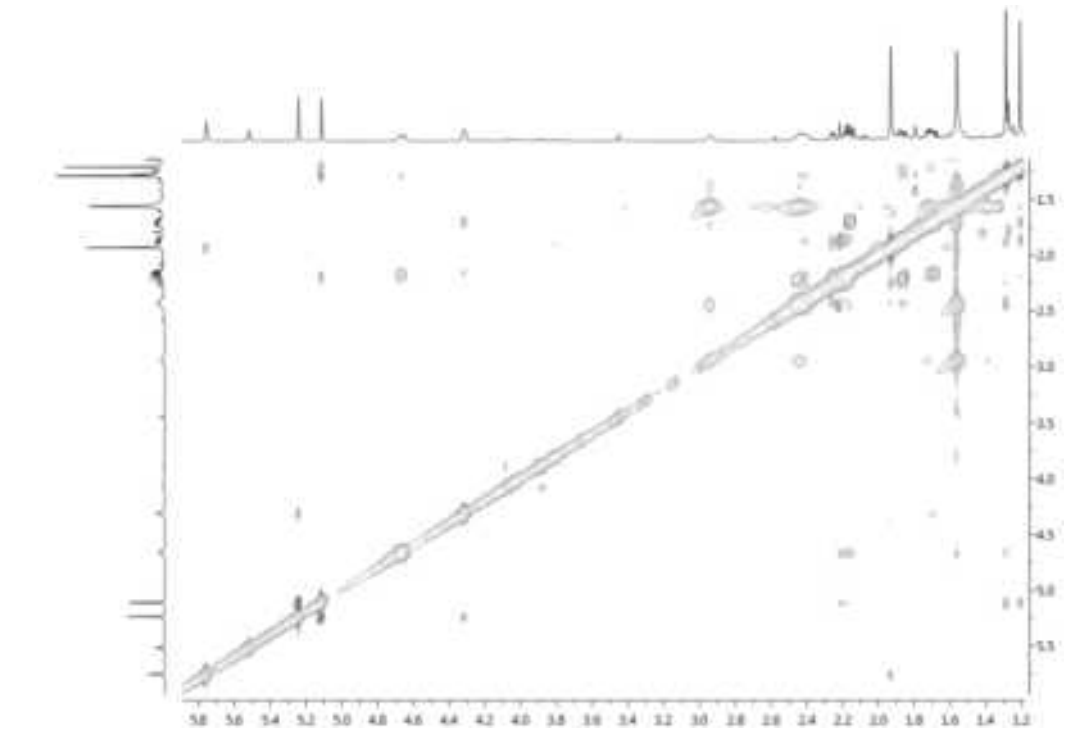


Figure S13: NOESY spectrum of **1**

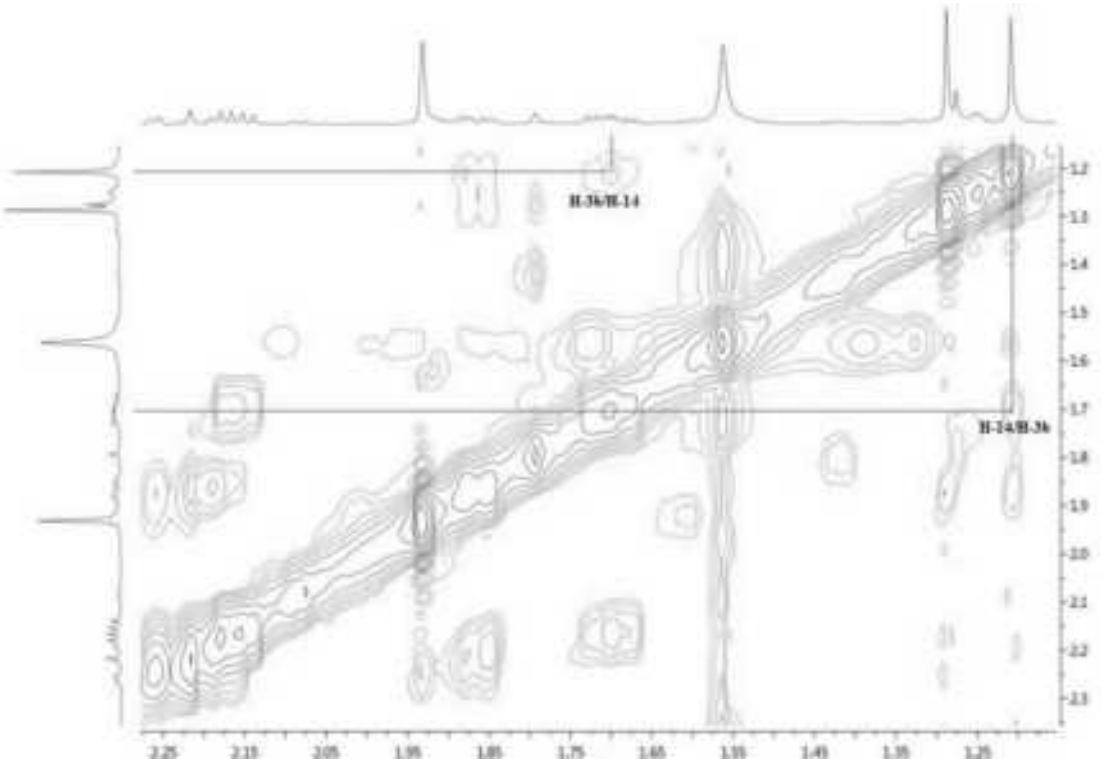


Figure S14: Enlarged NOESY spectrum of **1**

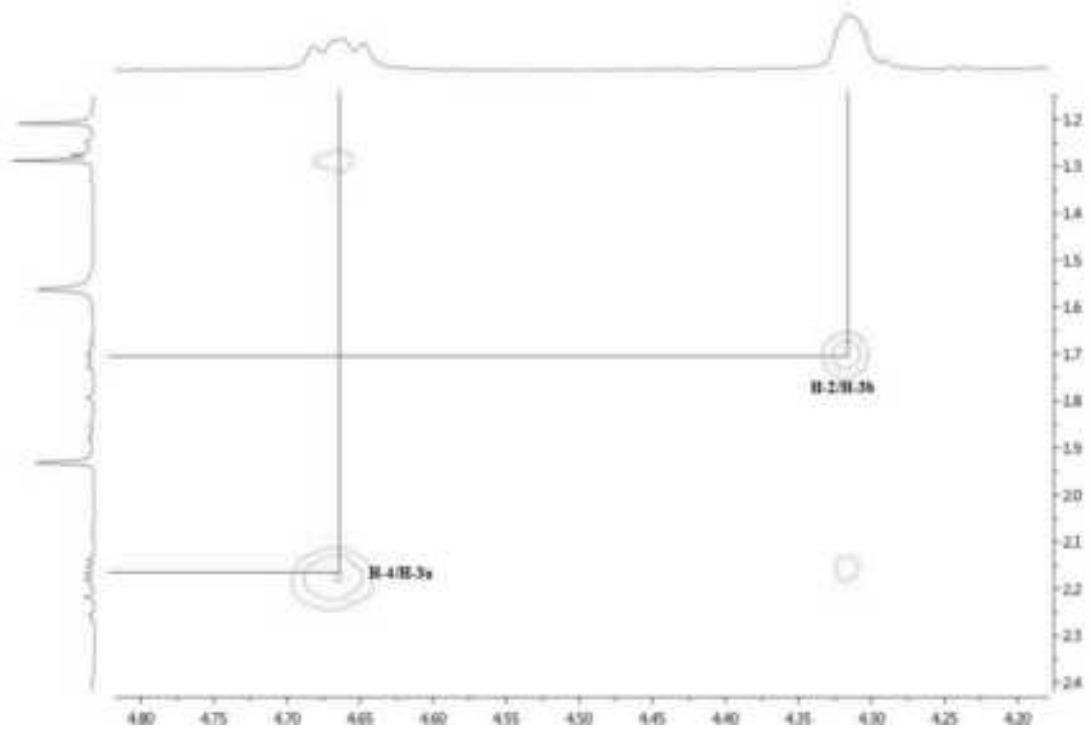


Figure S15: Enlarged NOESY spectrum of **1**

Mass	Calc. Mass	mDa	PPM	DBE	Formula	C	H	O	Na
273.1466	273.1467	-0.1	-0.4	4.5	C15 H22 O3 Na	15	22	3	1

Figure S16: HRESIMS spectrum of **1**

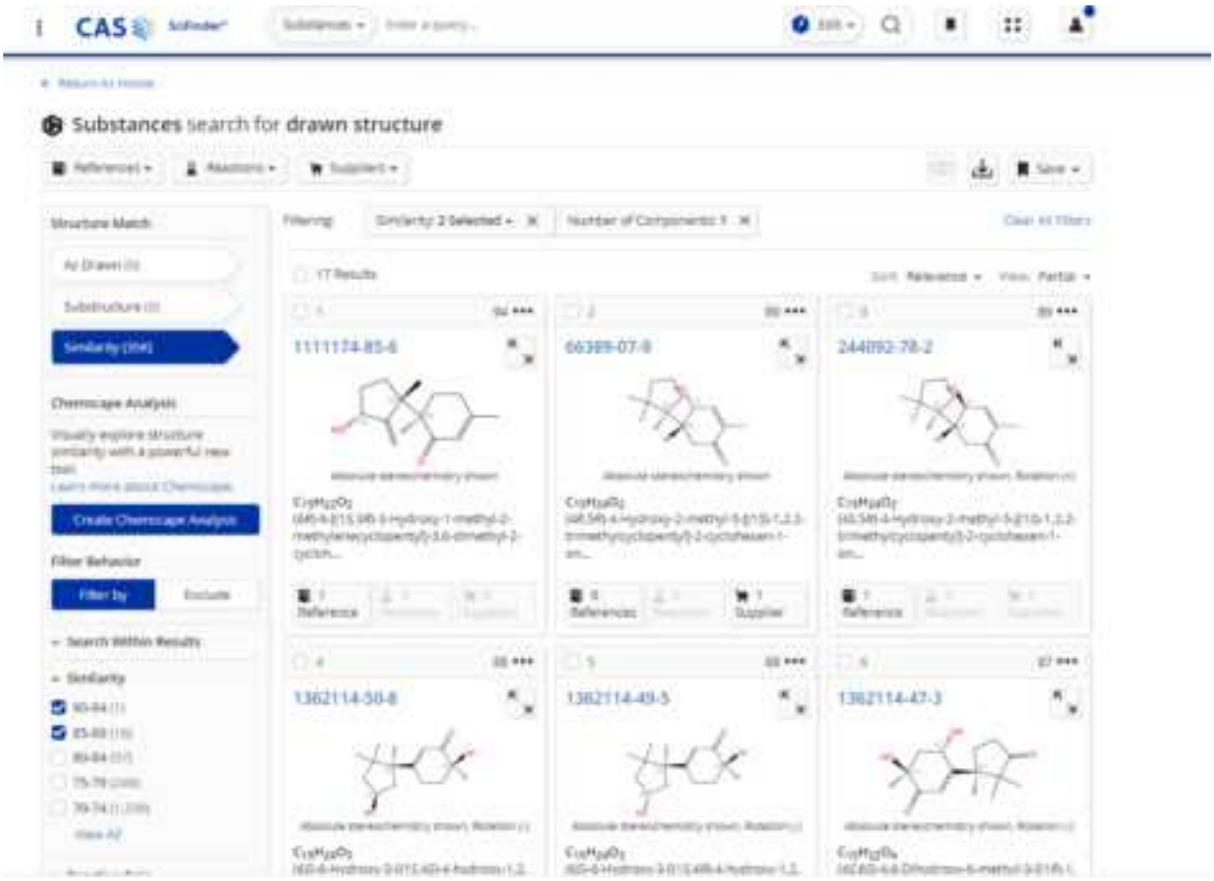
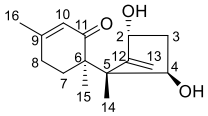
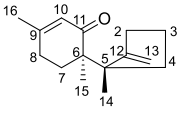
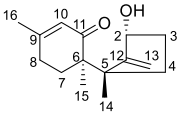


Figure S17: Scifinder search result of **1**

Table S1: NMR data of compounds **1**, 3,6α-dimethyl-2β-(1β-methyl-2-methylenecyclopentyl)cyclohex-2-enone, and 2α-hydroxytrichodiene-11-one

Position	 **1**		 **3,6α-dimethyl-2β-(1β-methyl-2-methylenecyclopentyl)cyclohex-2-enone [11]**	 **2α-hydroxytrichodiene-11-one [15]**
	δ_H	δ_C	δ_C	δ_H
2	4.32, d (4.3)	74.7, CH	38.4, CH_2	4.33, dd (8.3, 4.5)
3a	2.16, dd (13.5, 6.6)	40.7, CH_2	23.4, CH_2	1.78, dd (13.8, 6.9)
3b	1.70, ddd (13.5, 10.9, 5.1)			1.71, dddd (13.8, 13.1, 6.9, 4.5)
4a	4.67, dd (10.6, 6.8)	76.6, CH	39.0, CH_2	2.60, ddd (13.1, 13.1, 6.9)
4b				1.48, dd (13.1, 6.9)
5		52.2, C	48.5, C	
6		49.4, C	49.4, C	
7a	2.20, m	31.6, CH_2	30.3, CH_2	2.31, ddd (13.1, 11.7, 5.1)
7b	1.87, ddd (13.6, 5.2, 1.7)			1.97, ddd (13.1, 5.2, 2.1)
8a	2.43, m	28.9, CH_2	28.4, CH_2	2.43, m
8b	2.24, m			2.23, ddd (18.6, 5.1, 2.1)
9		161.6, C	160.7, C	
10	5.76, s	126.9, CH	127.2, CH	5.73, s
11		207.1, C	204.2, C	
12		161.0, C	159.0, C	
13a	5.24, s	113.5, CH_2	106.2, CH_2	5.22, s
13b	5.11, s			5.12, s
14	1.21, s	20.8, CH_3	26.1, CH_3	1.10, d (0.7)
15	1.29, s	18.2, CH_3	17.4, CH_3	1.22, s
16	1.93, s	23.9, CH_3	23.8, CH_3	1.92, s

[15] T. Tokai, H. Koshino, T. Kawasaki, T. Igawa, Y. Suzuki, M. Sato, M. Fujimura, T. Eizuka, H. Watanabe, T. Kitahara, K. Ohta, T. Shibata, T. Kudo, H. Inoue, I. Yamaguchi and M. Kimura (2005). Screening of putative oxygenase genes in the *Fusarium graminearum* genome sequence database for their role in trichothecene biosynthesis, *FEMS Microbiol. Lett*. **251**, 193-201.