

Supporting Information

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

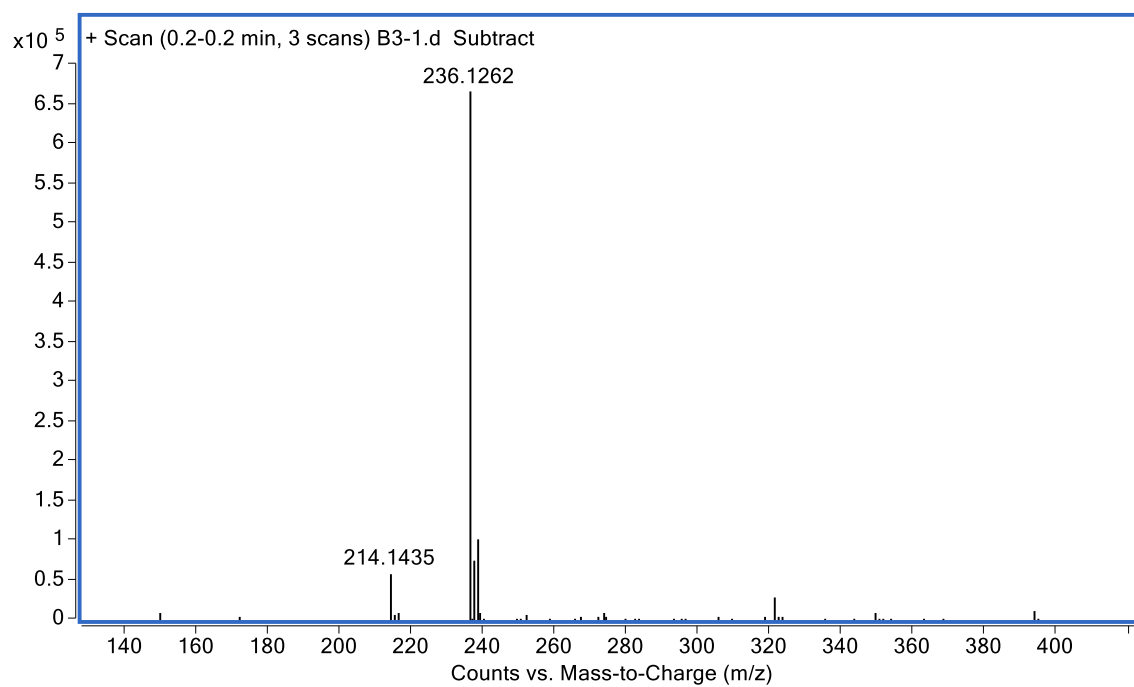
Chemical Investigation of a Co-Culture of *Aspergillus fumigatus* D and *Fusarium oxysporum* R1

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Formula (M)	Ion Formula	m/z	Calc m/z	Diff (ppm)	DBE
C ₁₁ H ₁₉ N O ₃	C ₁₁ H ₁₉ N Na O ₃	236.126 3	236.125 7	-2.75	3

Figure S1: HR-ESI (+)-TOF-MS spectrum of compound **1**.

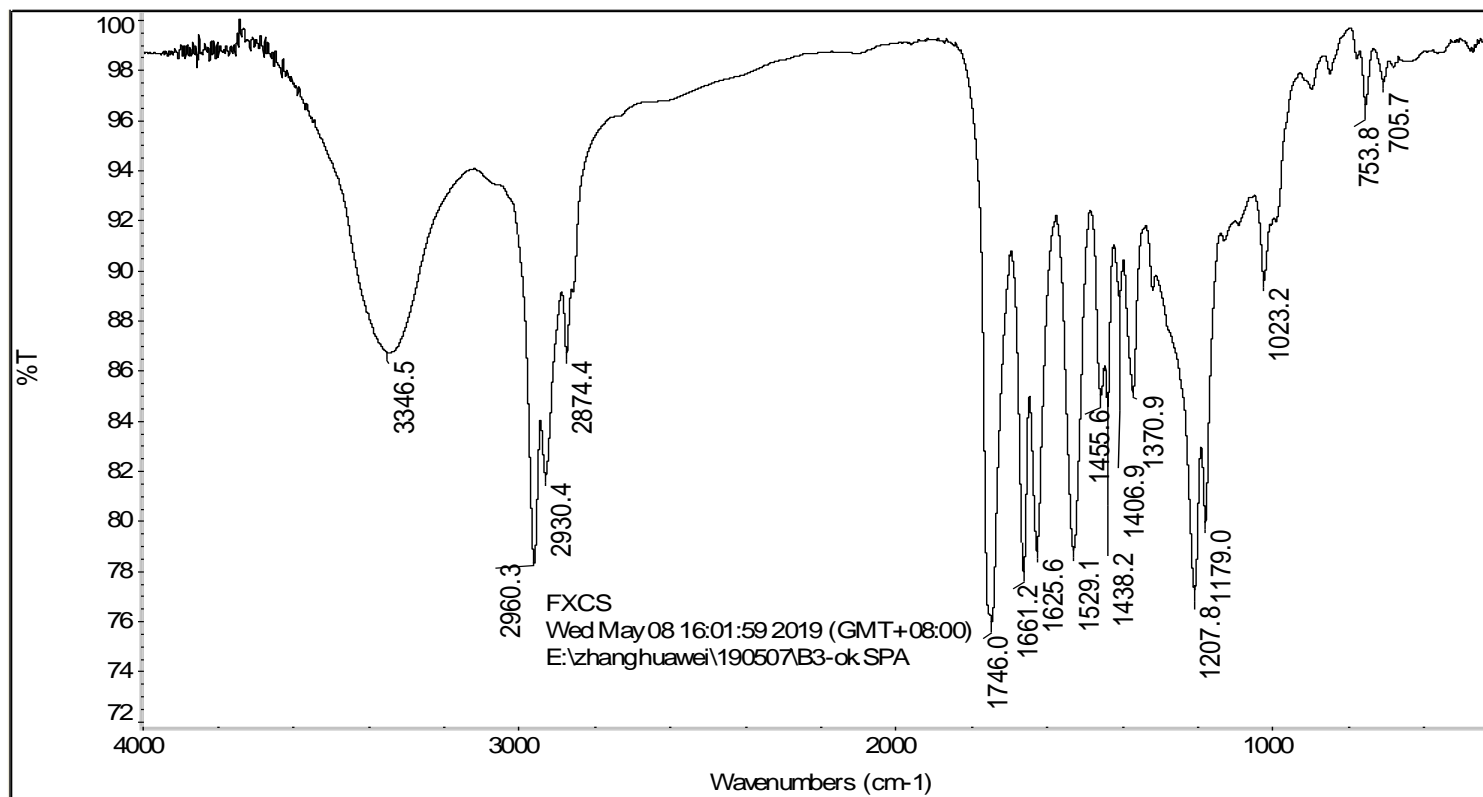


Figure S2: IR (KBr) spectrum of compound **1**.

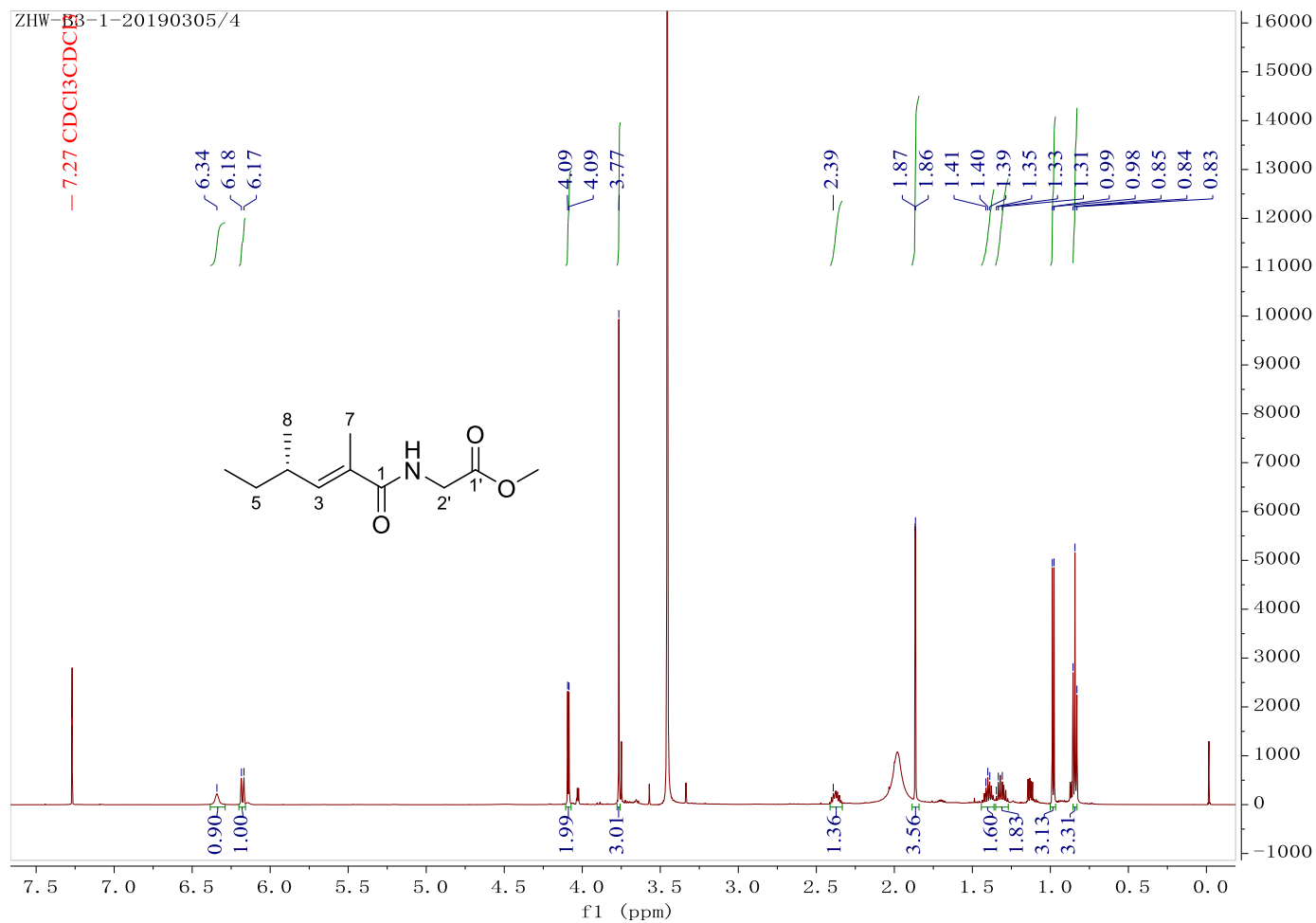


Figure S3: ¹H NMR (600 MHz, CDCl₃) spectrum of compound 1.

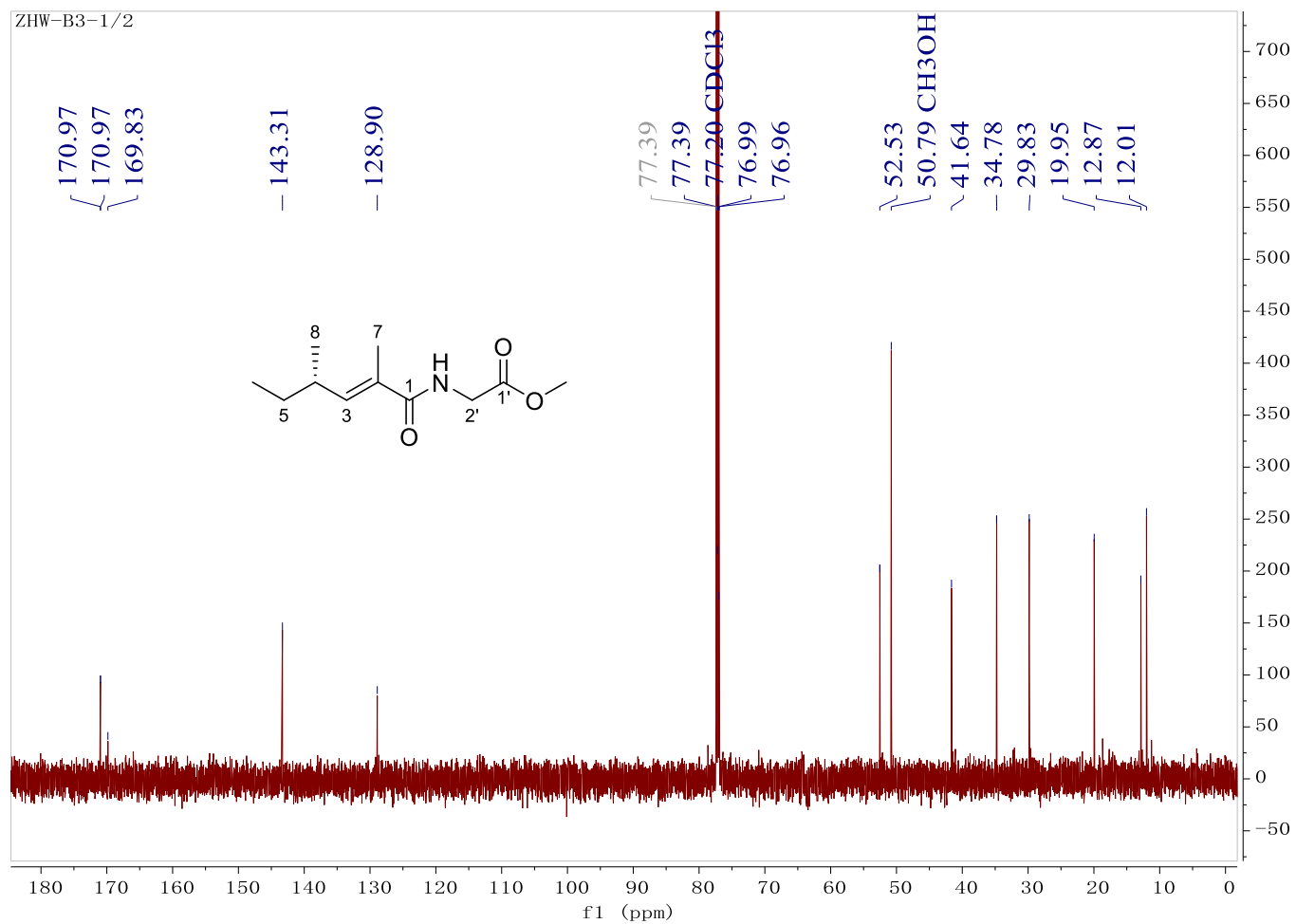


Figure S4: ^{13}C NMR (151 MHz, CDCl_3) spectrum of compound **1**.

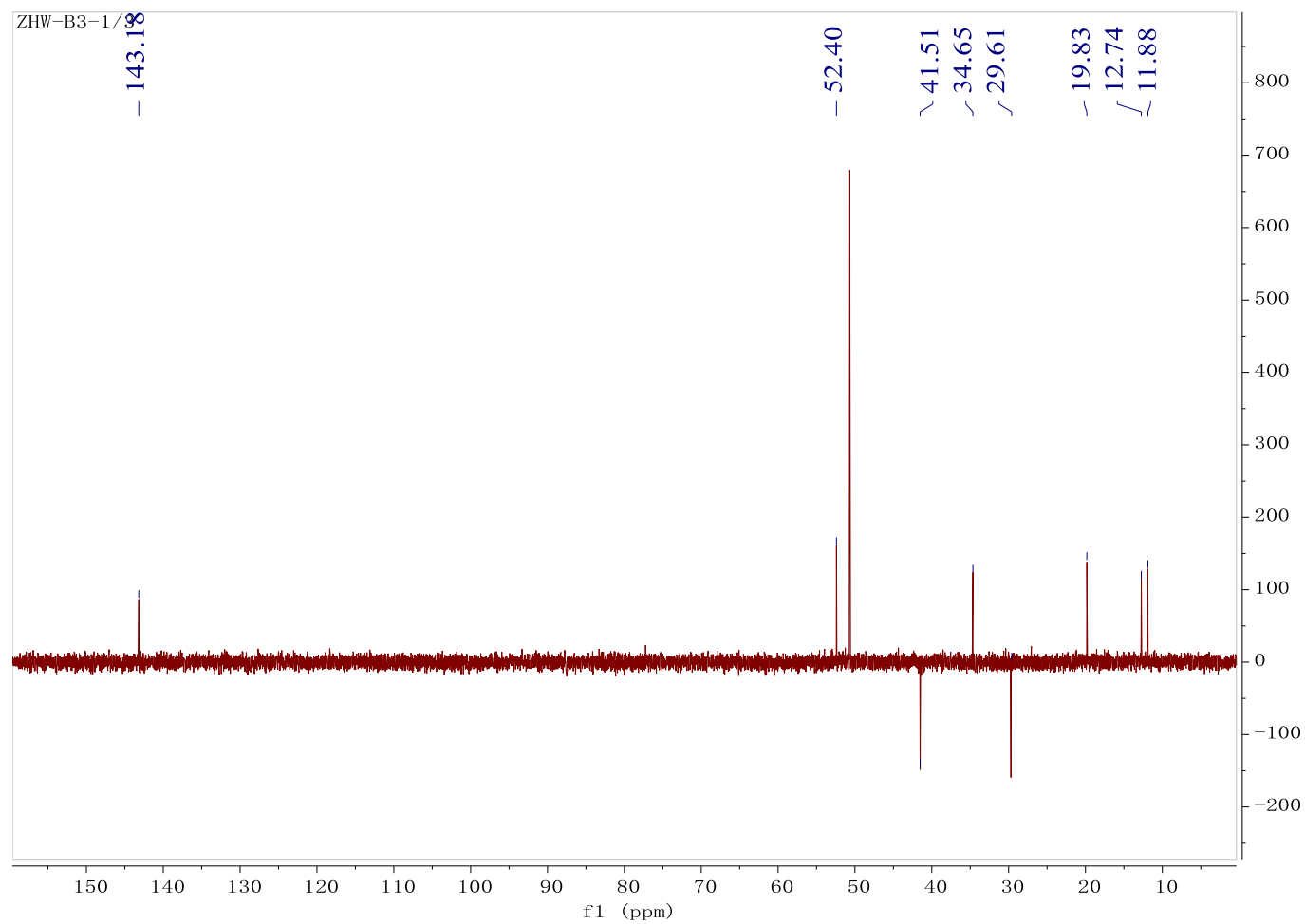


Figure S5: DEPT-135 (CDCl_3) spectrum of compound **1**.

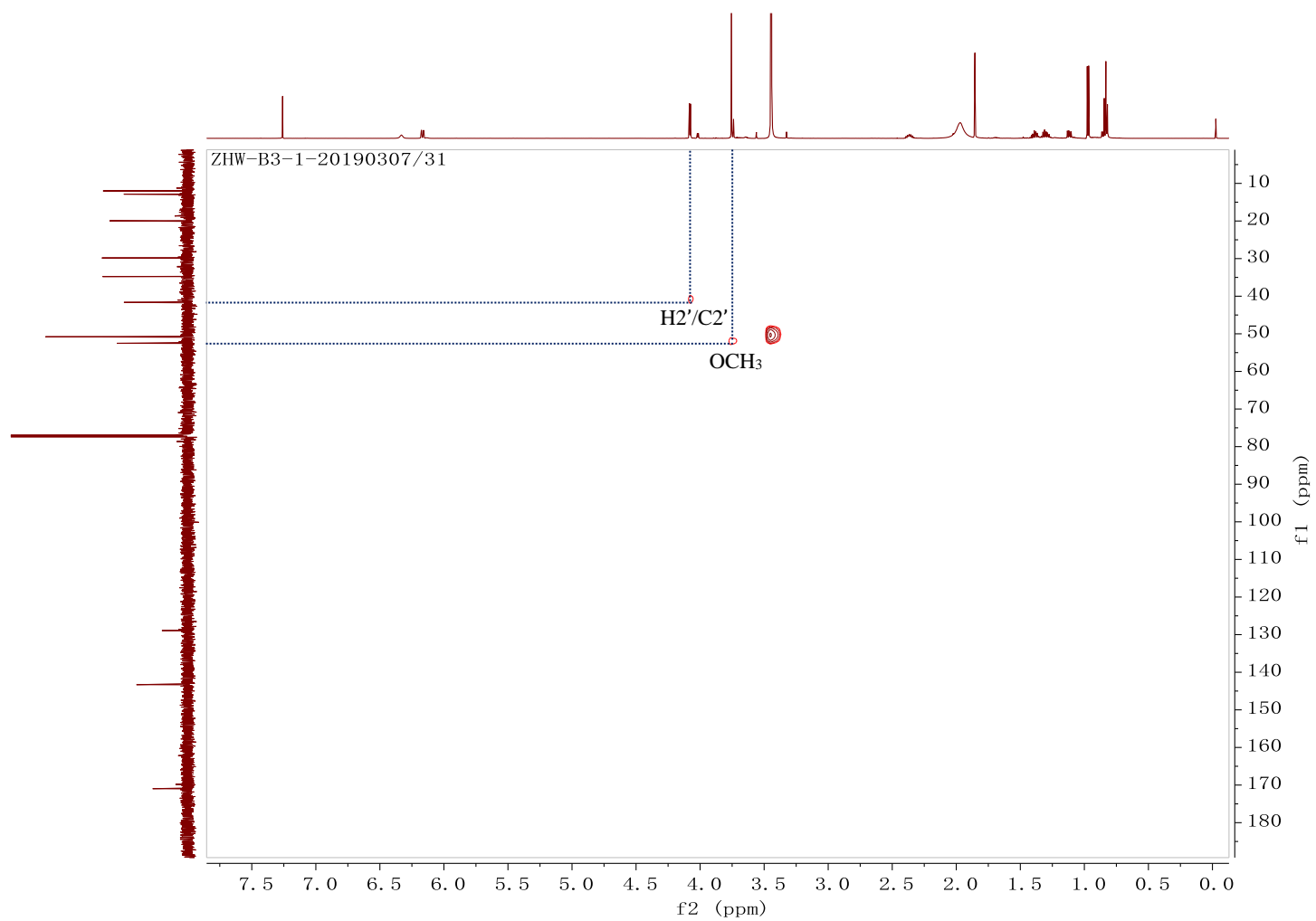


Figure S6: HSQC (CDCl₃) spectrum of compound **1**.

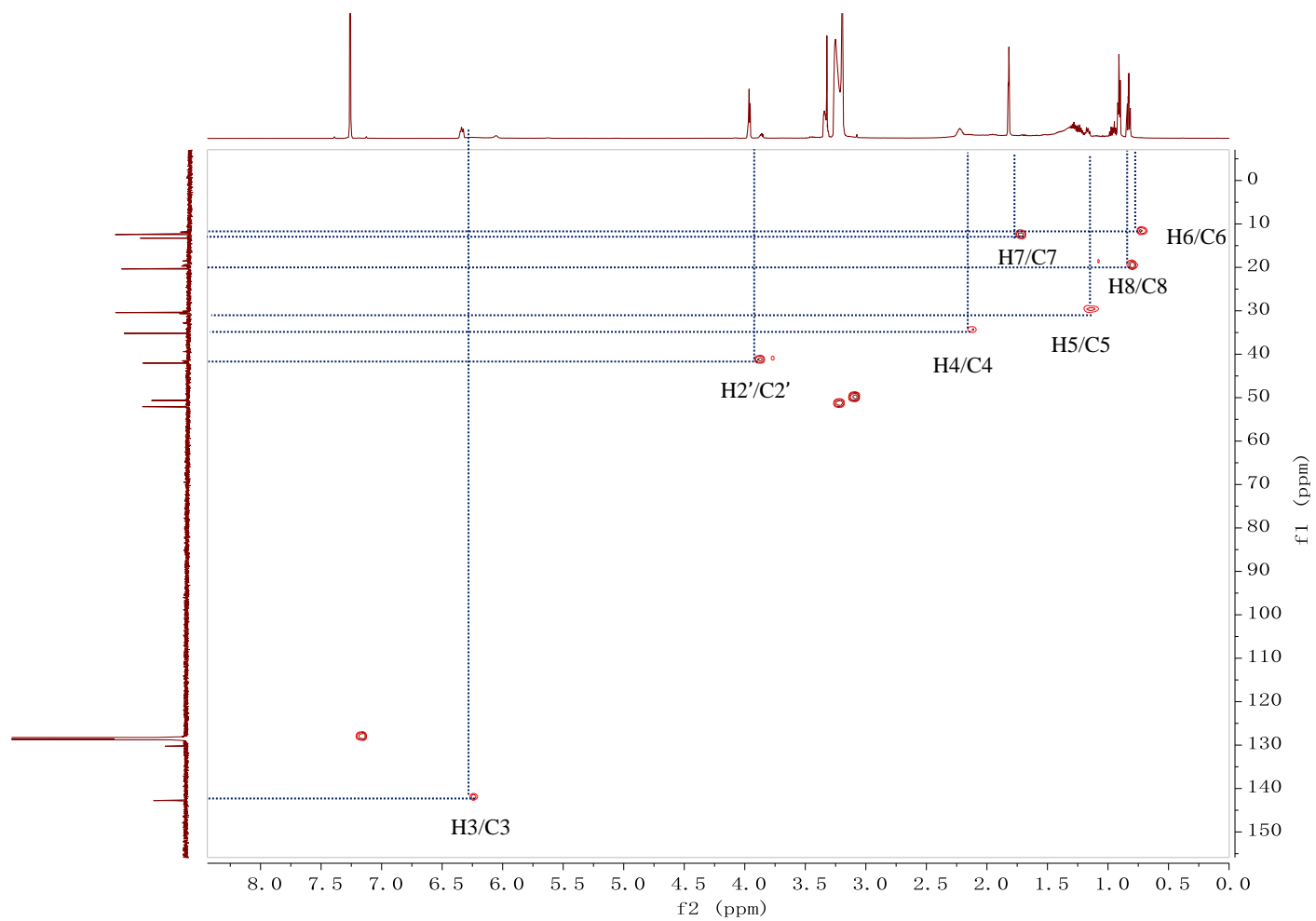


Figure S7: HSQC (C_6D_6) spectrum of compound **1**.

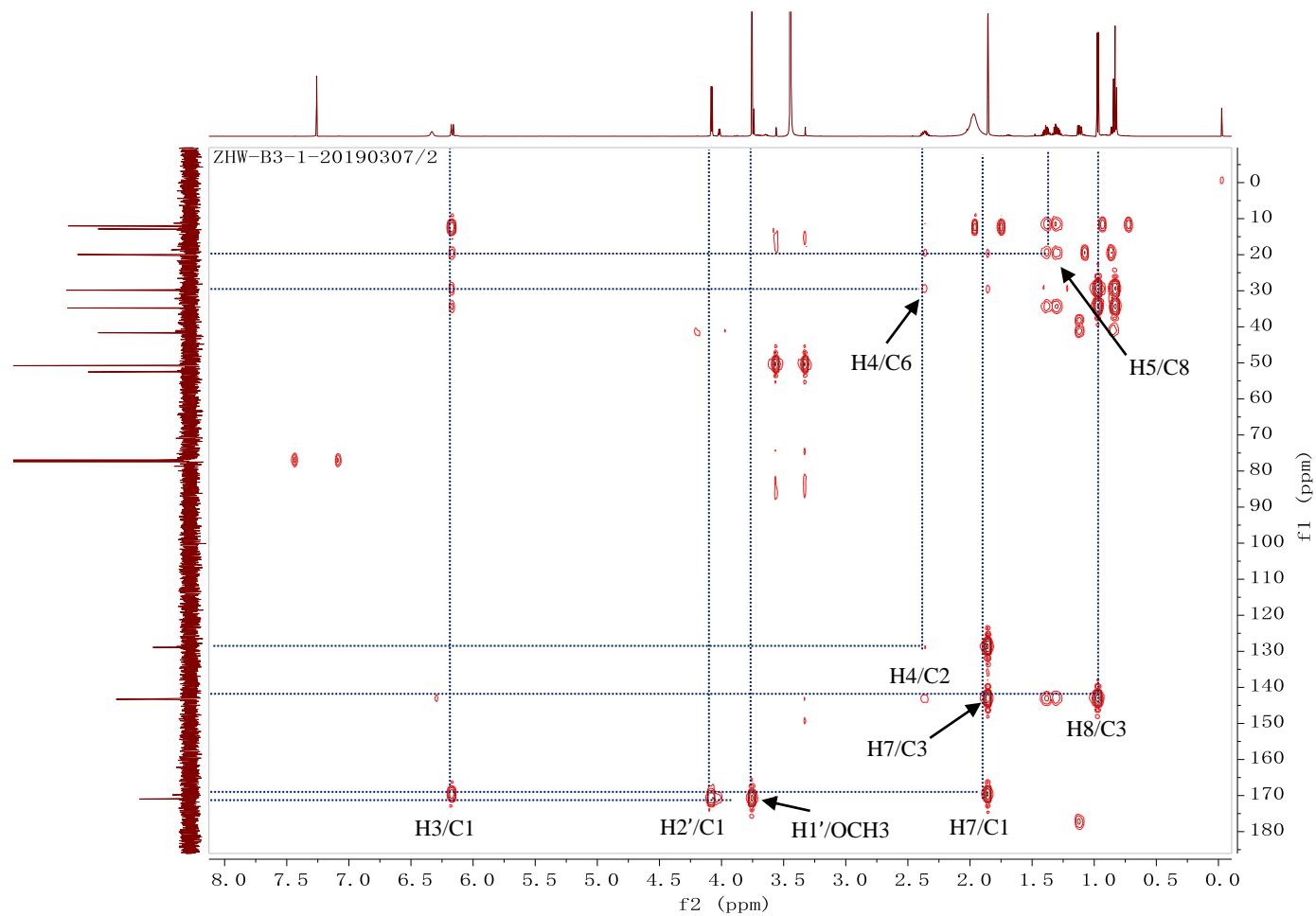


Figure S8: HMBC (CDCl₃) spectrum of compound **1**.

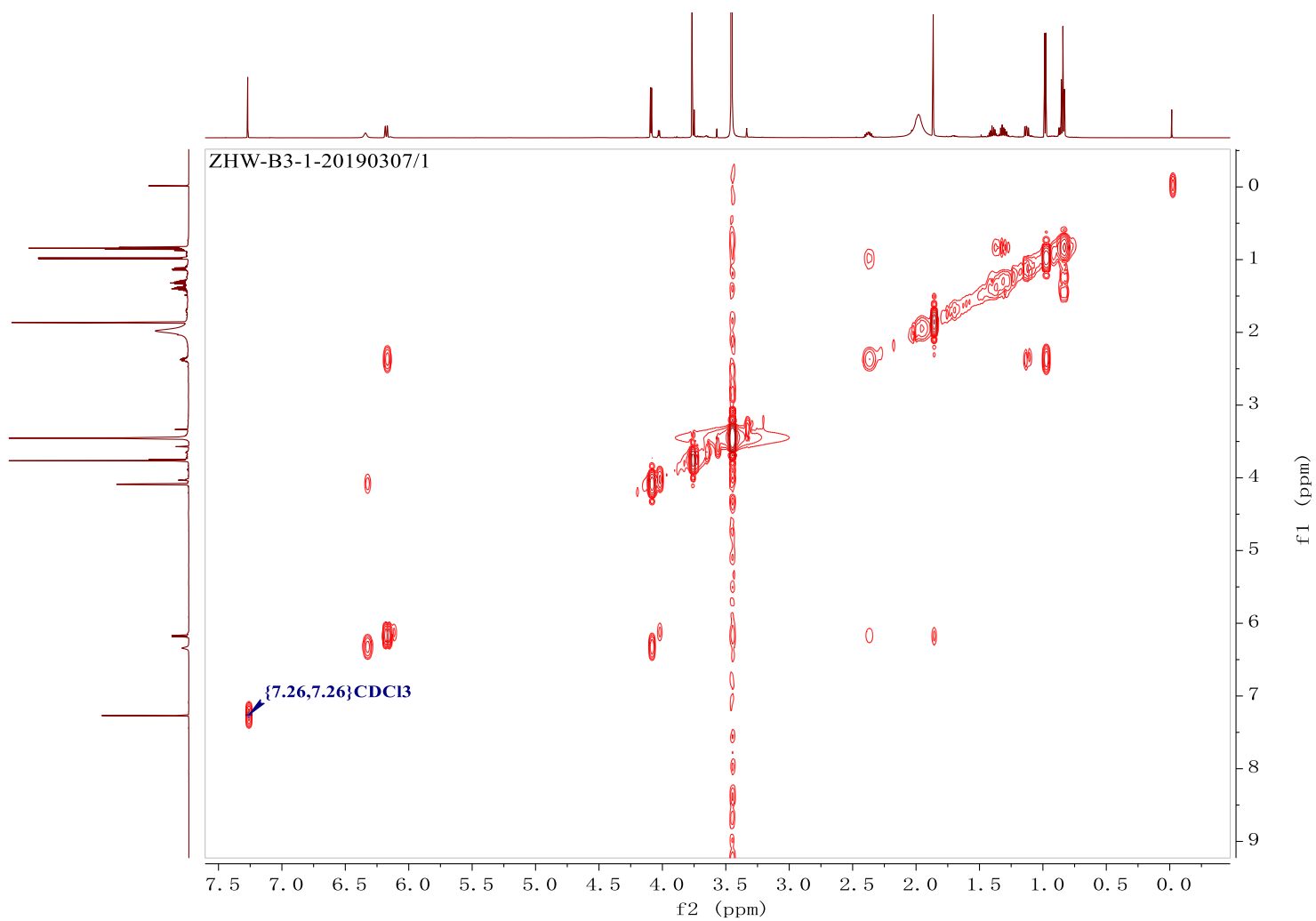


Figure S9: ^1H - ^1H COSY (CDCl_3) spectrum of compound **1**.

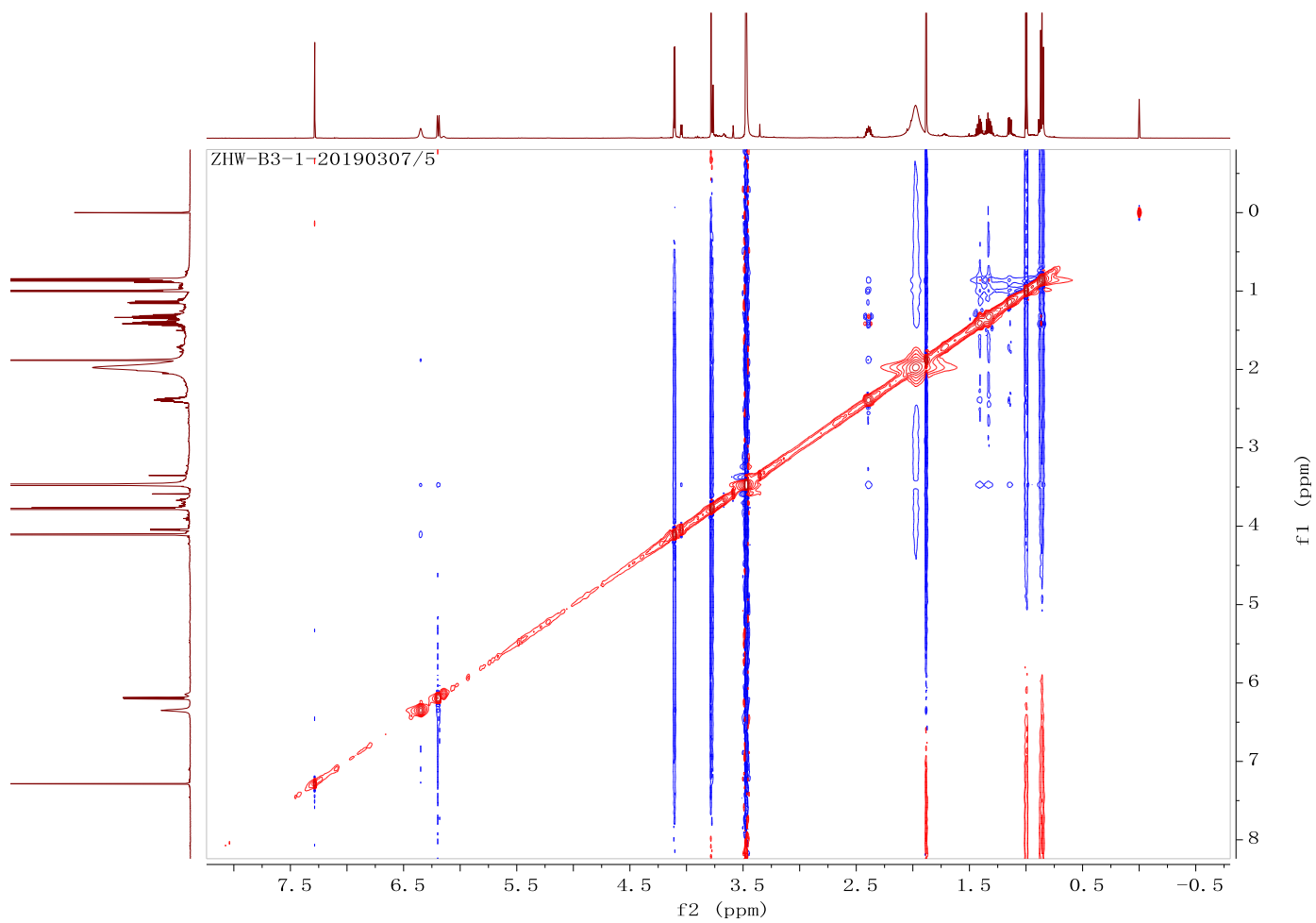


Figure S10: NOESY spectrum (600 MHz, CDCl_3) of compound **1**.

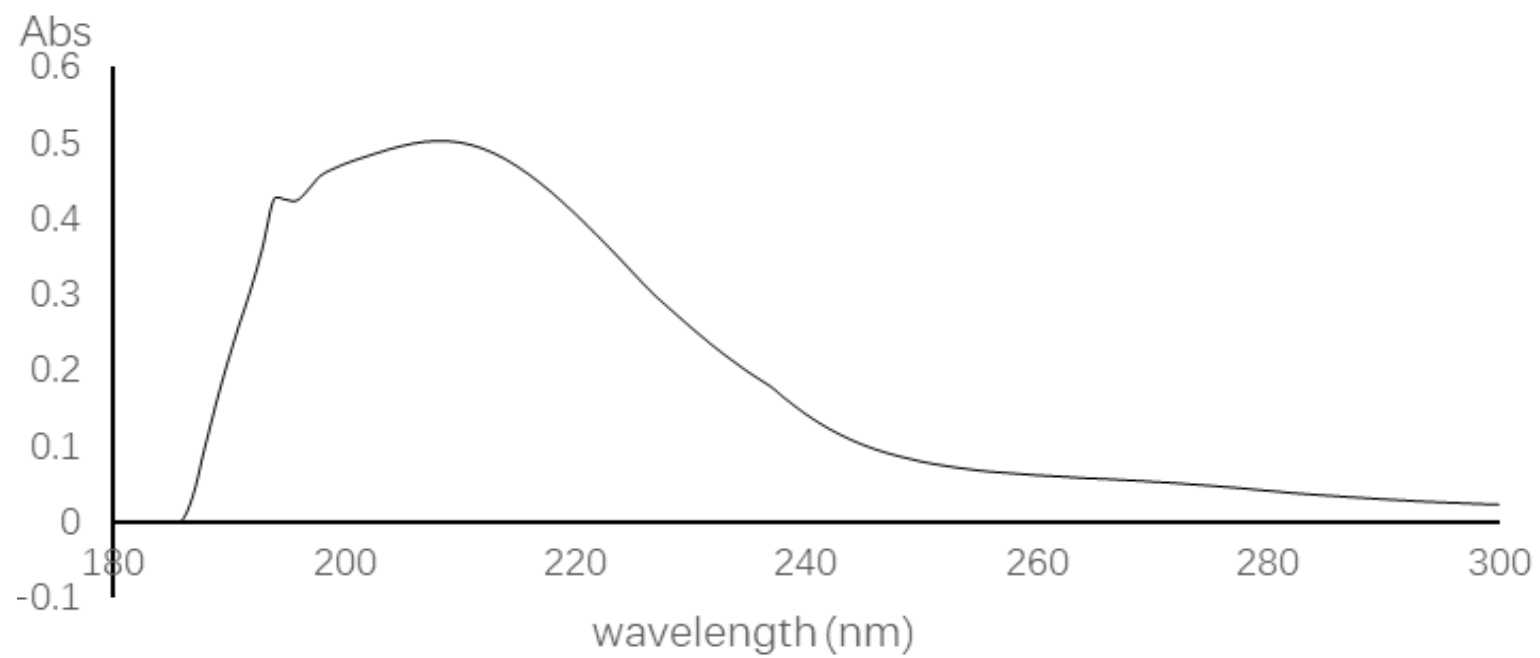


Figure S11: UV spectrum of compound **1** in MeOH.

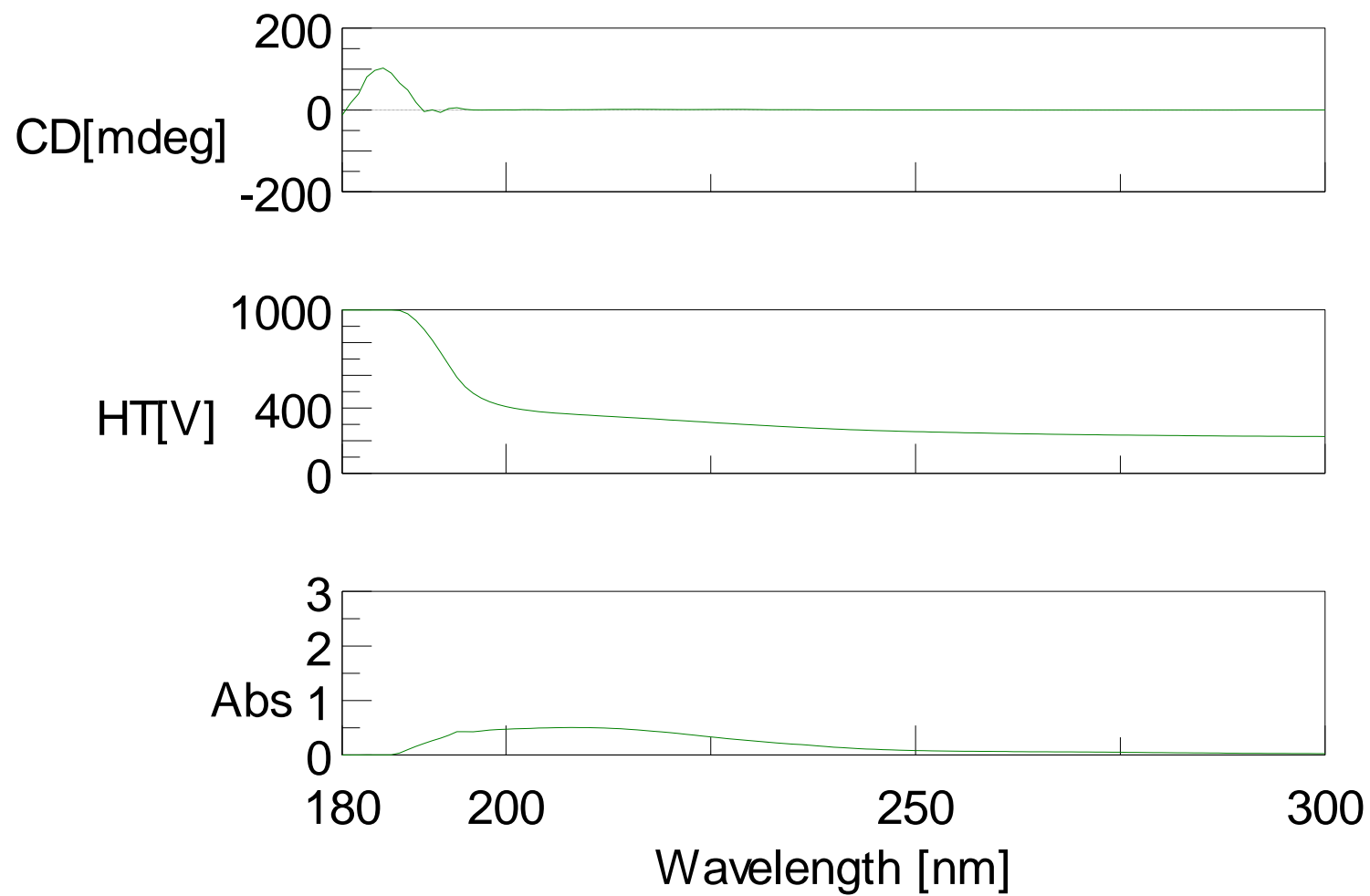


Figure S12: CD spectrum of compound **1**.

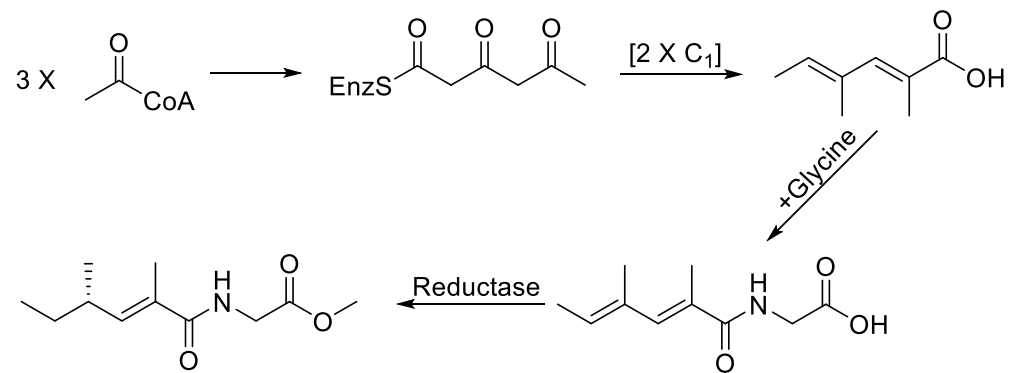


Figure S13: A putative biosynthetic pathway of compound **1**.

Table S1: Antimicrobial activities of compounds **1-7**.

Compound	MIC (μM)		
	<i>Escherichia coli</i> 25922	<i>Staphylococcus aureus</i> ATCC 25923	<i>Candida albicans</i> ATCC 10231
1	>100	>100	>100
2	>100	>100	>100
3	>100	>100	>100
4	>100	>100	>100
5	>100	50	>100
6	>100	100	>100
7	>100	25	>100
Ampicillin sodium	12.50	6.25	-
Amphotericin B	-	-	0.78

Table S2: The comparison of ^1H NMR (CDCl_3) of compound **1** and its analogue (δ in ppm, J in Hz).

Position	Compound 1	Analogue
1		
2		
3	6.18 (1H, d, $J = 9.6$)	6.23 (1H, t)
4	2.39 (1H, m)	2.29 (2H, m)
5	1.35 (2H, m)	1.04 (3H, t)
6	0.84 (3H, t, $J = 7.8, 7.2$)	2.17 (2H, m)
7	1.87 (3H, d, $J = 1.2$)	1.43 (2H, m)
8	0.99 (3H, d, $J = 6.6$)	0.92 (3H, t)
1'		
2'	4.09 (2H, d, $J = 5.4$)	4.65 (1H, m)
3'		1.43 (3H, d)
OCH ₃	3.77 (3H, s)	3.76 (3H, s)
NH	6.34 (1H, br s)	6.30 (1H, br s)