

## Supporting Information for

# Azamerone, A Novel Terpenoid Phthalazinone from a Marine-Derived Bacterium related to the Genus *Streptomyces* (Actinomycetales)

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**Table S1.** Spectral Data for Azamerone (**1**) at 500 MHz in CD<sub>3</sub>OD

C/H #	$\delta$ H mult (J/Hz)	$\delta$ C		COSY	HMBC	1D NOE
3	9.76 s	152.2	CH		C4, C5, C13	1a', 2'
4		146.5				
5		71.6				
6		172.8				
8		82.7				
9	4.33 dd (7.5, 5.5)	59.3	CH	10	C8, C10, C11, C17, C18	10, 17, 18
10a	2.61 dd (17.5, 7.5)	27.7	CH <sub>2</sub>	9, 10b	C6, C8, C9, C11, C12	
10b	3.09 dd (17.5, 5.5)			9, 10a	C6, C8, C9, C11, C12	
11		110.0				
12		181.6				
13		124.8				
14		158.8				
15		202.5				
16	2.60 s	30.0	CH <sub>3</sub>		C14, C15	
17	1.48 s	21.9	CH <sub>3</sub>		C8, C9	9, 10a, 18
18	1.60 s	26.1	CH <sub>3</sub>		C8	9, 17
1a'	2.63 dd (15.0, 7.0)	41.9	CH <sub>2</sub>	1b', 2'	C2', C4, C6	
1b'	1.95 dd (15.0, 2.0)			1a', 2'	C2', C4, C6	
2'	1.70 dd (7.0, 2.0)	51.3	CH	1'	C6', C7', C8', C9', C10'	
3'		72.4				
4a'	1.81 td (14.0, 3.5)	42.6	CH <sub>2</sub>	4b', 5'	C3', C'5', C10'	
4b'	1.65 dt (14.0, 3.5)			4a', 5'	C3', C'5', C10'	
5a'	1.99 m	31.9	CH <sub>2</sub>	4', 5b', 6'	C4', C6'	
5b'	1.85 m			4', 5a', 6'	C4', C6'	
6'	3.79 dd (12.0, 4.0)	71.4	CH	5'	C4', C5', C7, C8', C9'	2', 4b', 5a', 9'
7'		41.6				
8'	0.78 s	16.4	CH <sub>3</sub>		C2', C6', C7', C9'	1', 5b', 9', 10'
9'	0.50 s	29.2	CH <sub>3</sub>		C2', C6', C7', C8'	1b', 2', 6', 8', 9'
10'	1.22 s	23.8	CH <sub>3</sub>		C2', C3', C4'	1a', 4a', 8'

**Figure S1.**  $^1\text{H}$  NMR Spectrum (500 MHz) of Azamerone (**1**) in  $\text{CD}_3\text{OD}$

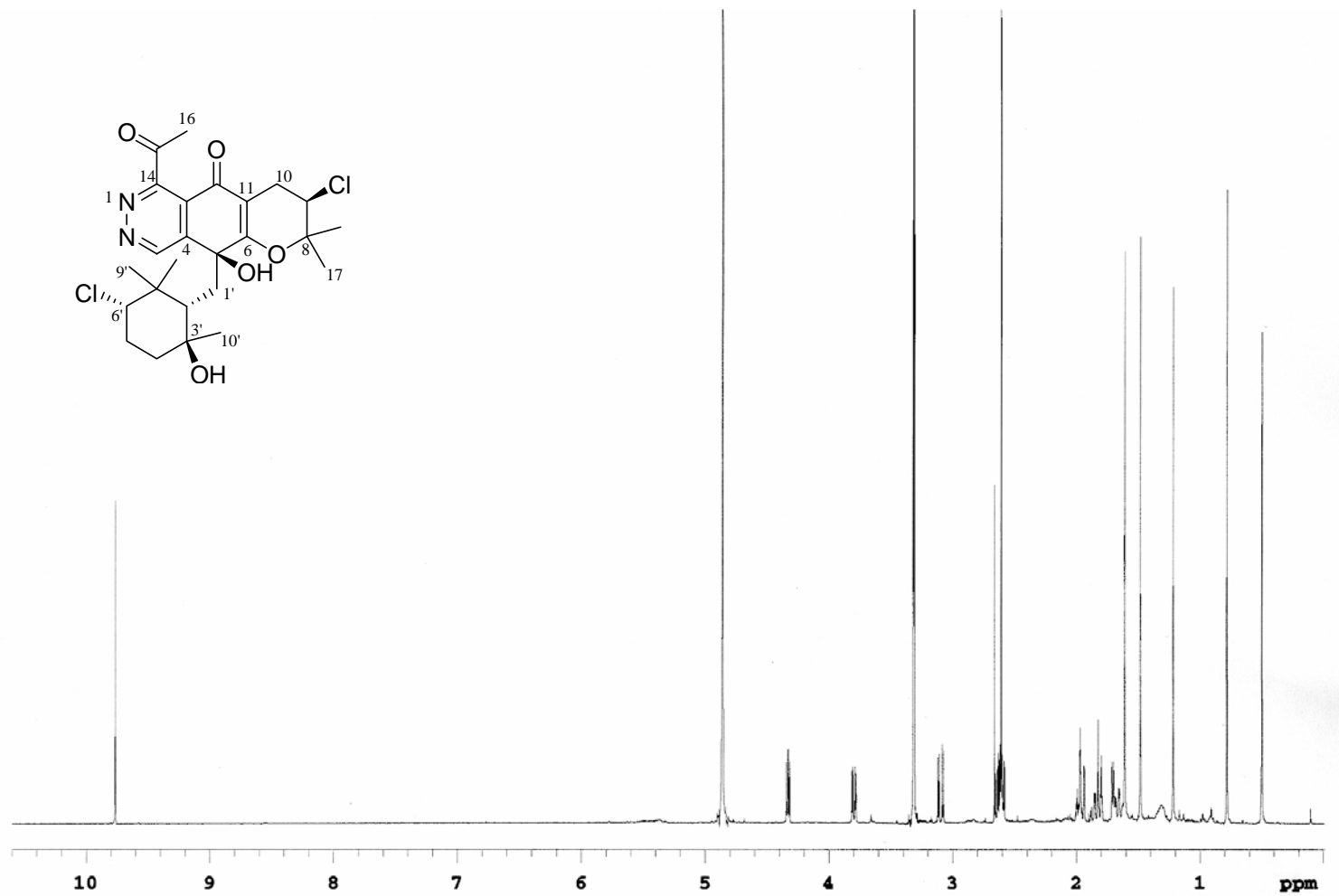
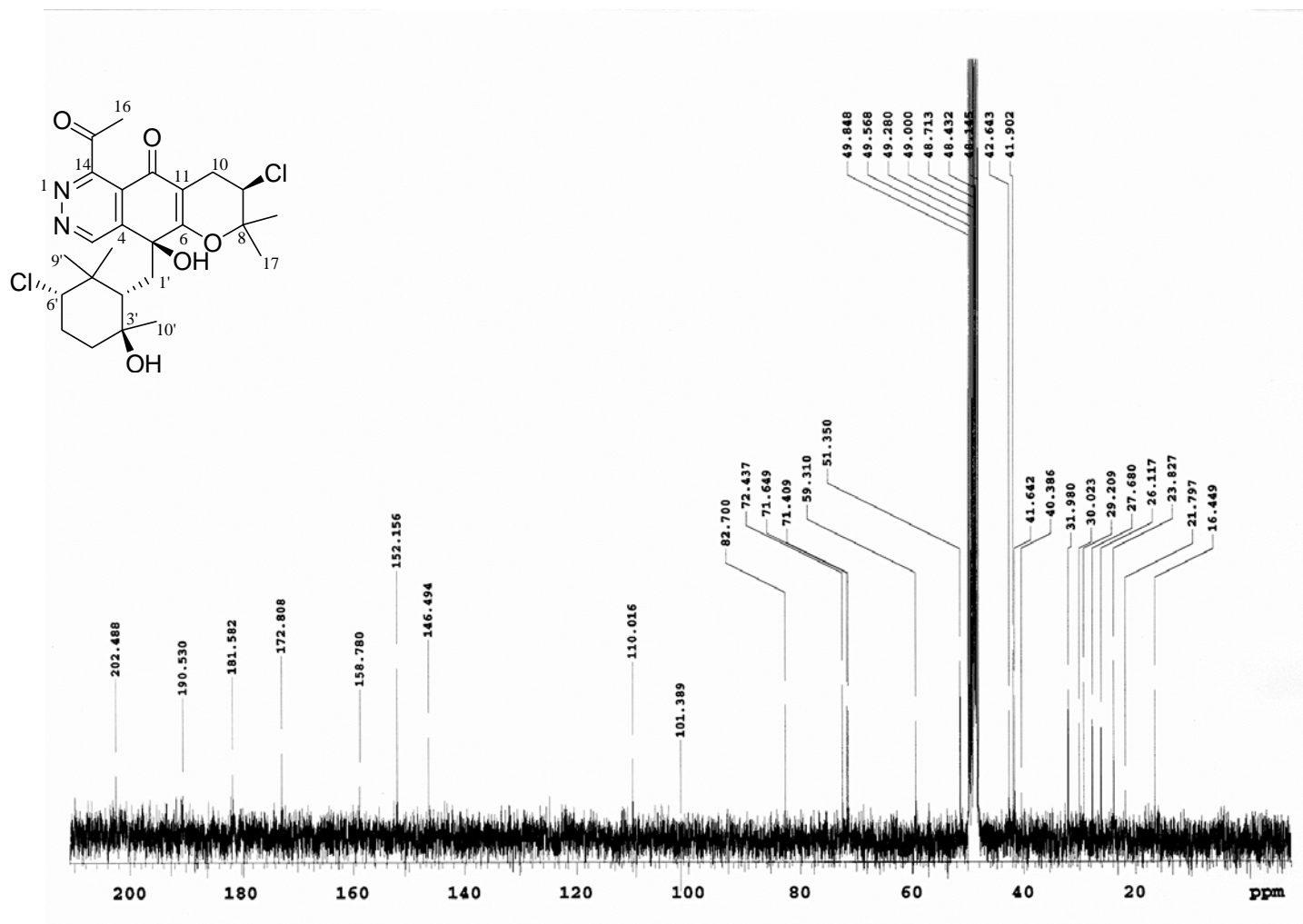
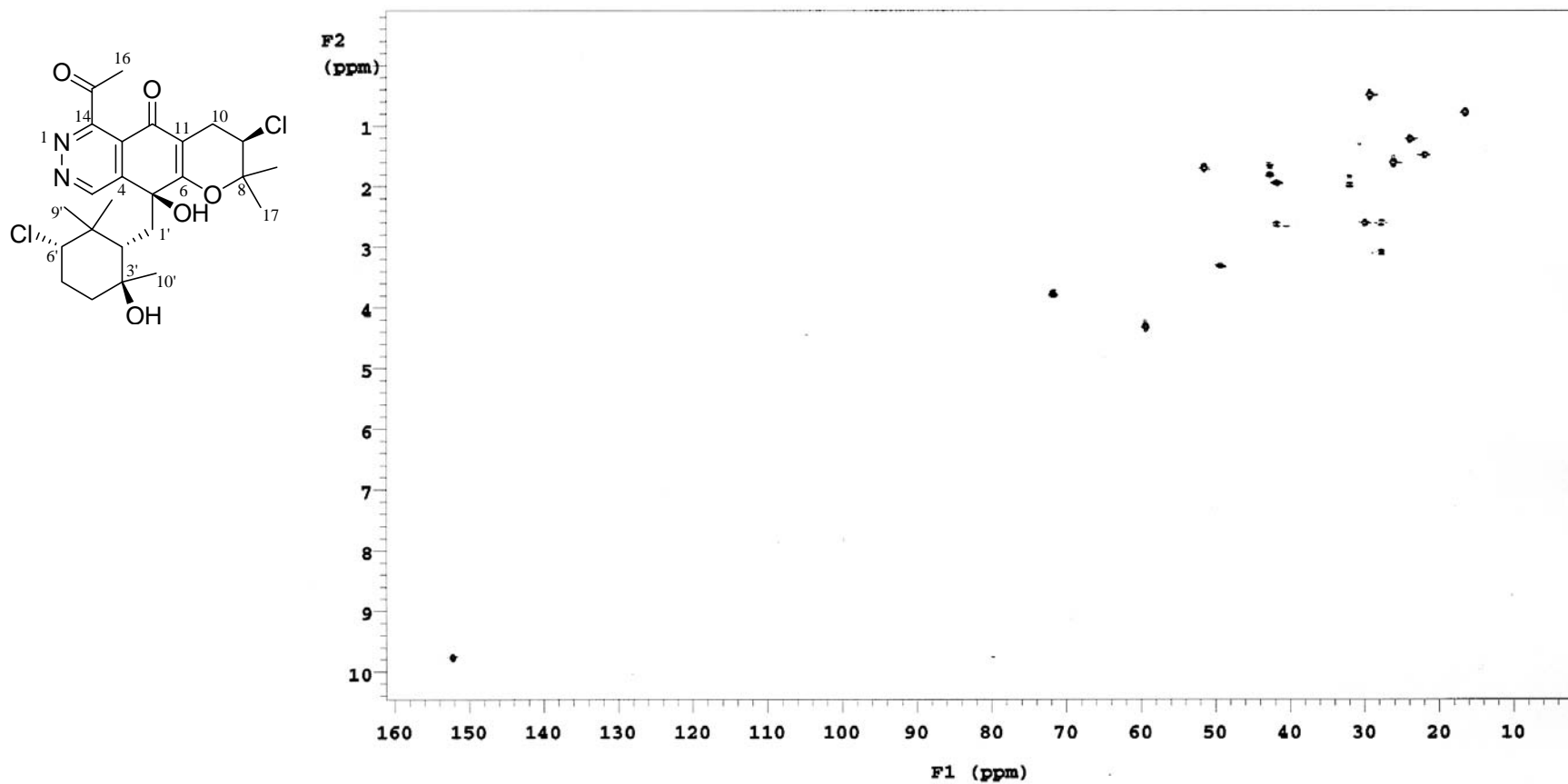


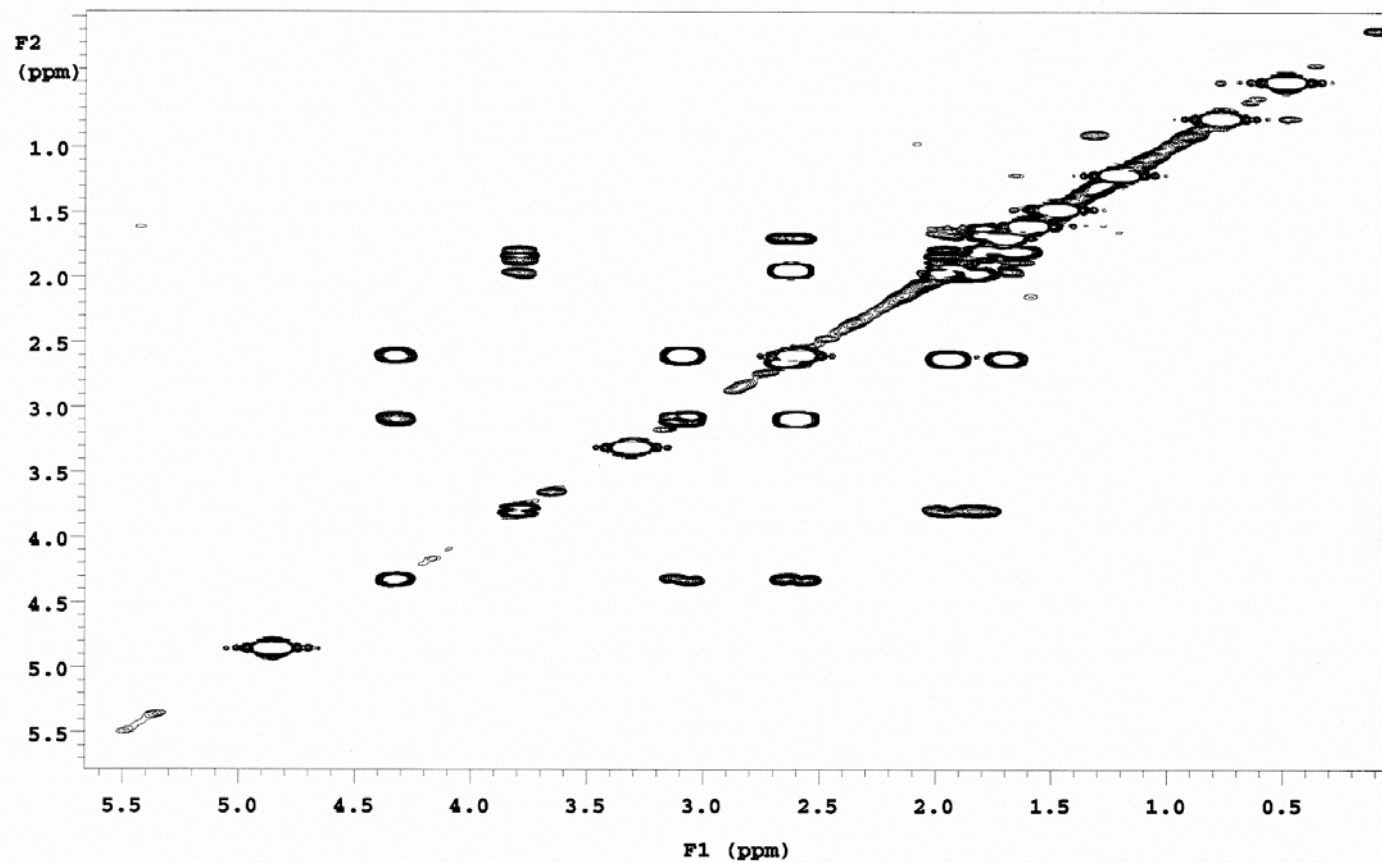
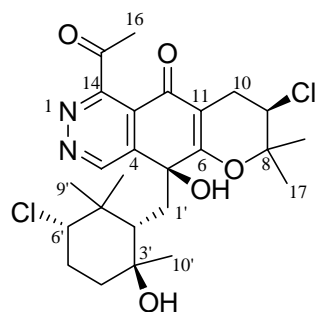
Figure S2.  $^{13}\text{C}$  NMR Spectrum (125 MHz) of Azamerone (**1**) in  $\text{CD}_3\text{OD}$



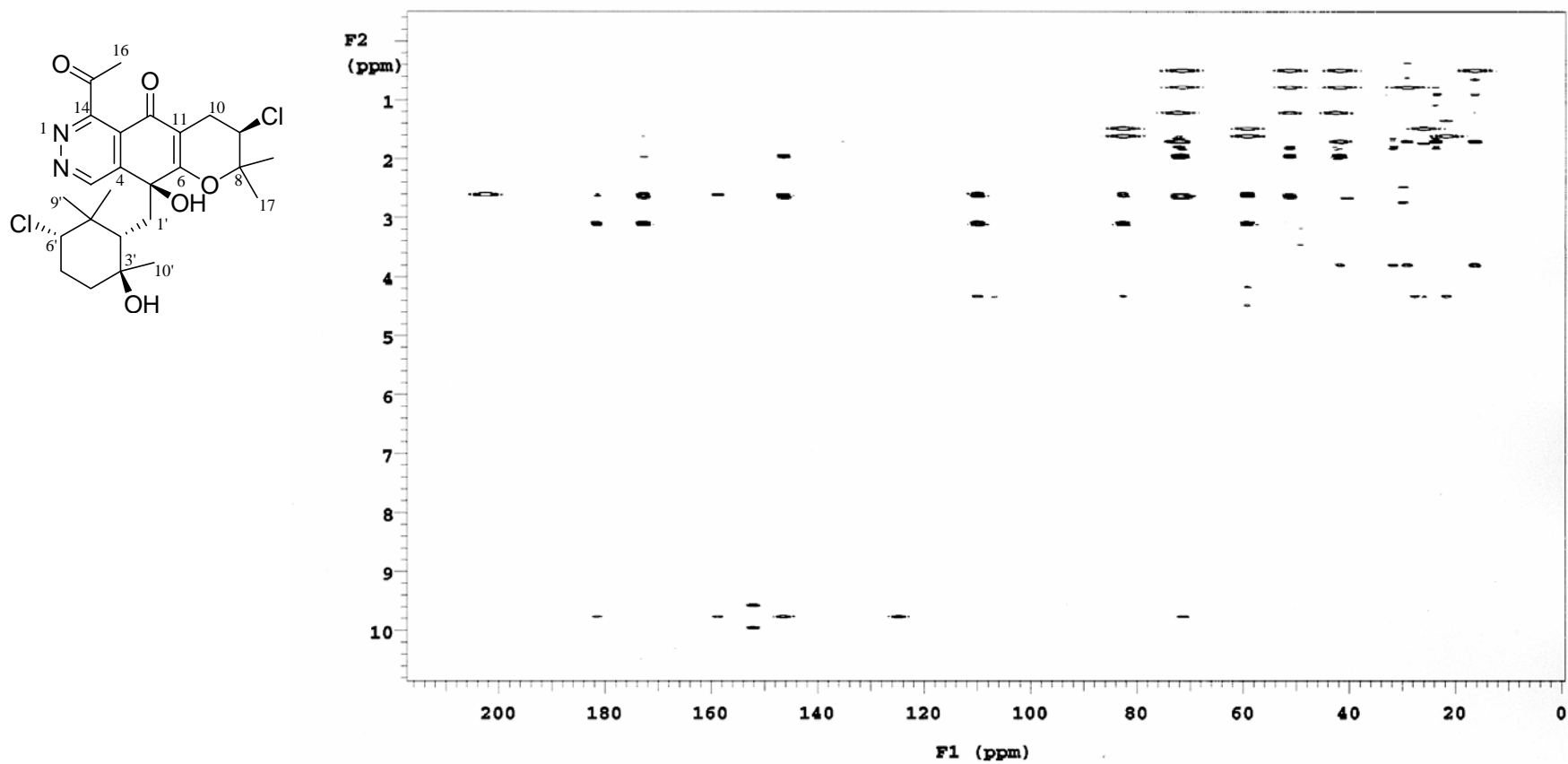
**Figure S3.** gHMQC NMR Spectrum (500 MHz) of Azamerone (**1**) in CD<sub>3</sub>OD



**Figure S4.** gCOSY NMR Spectrum (500 MHz) of Azamerone (**1**) in CD<sub>3</sub>OD

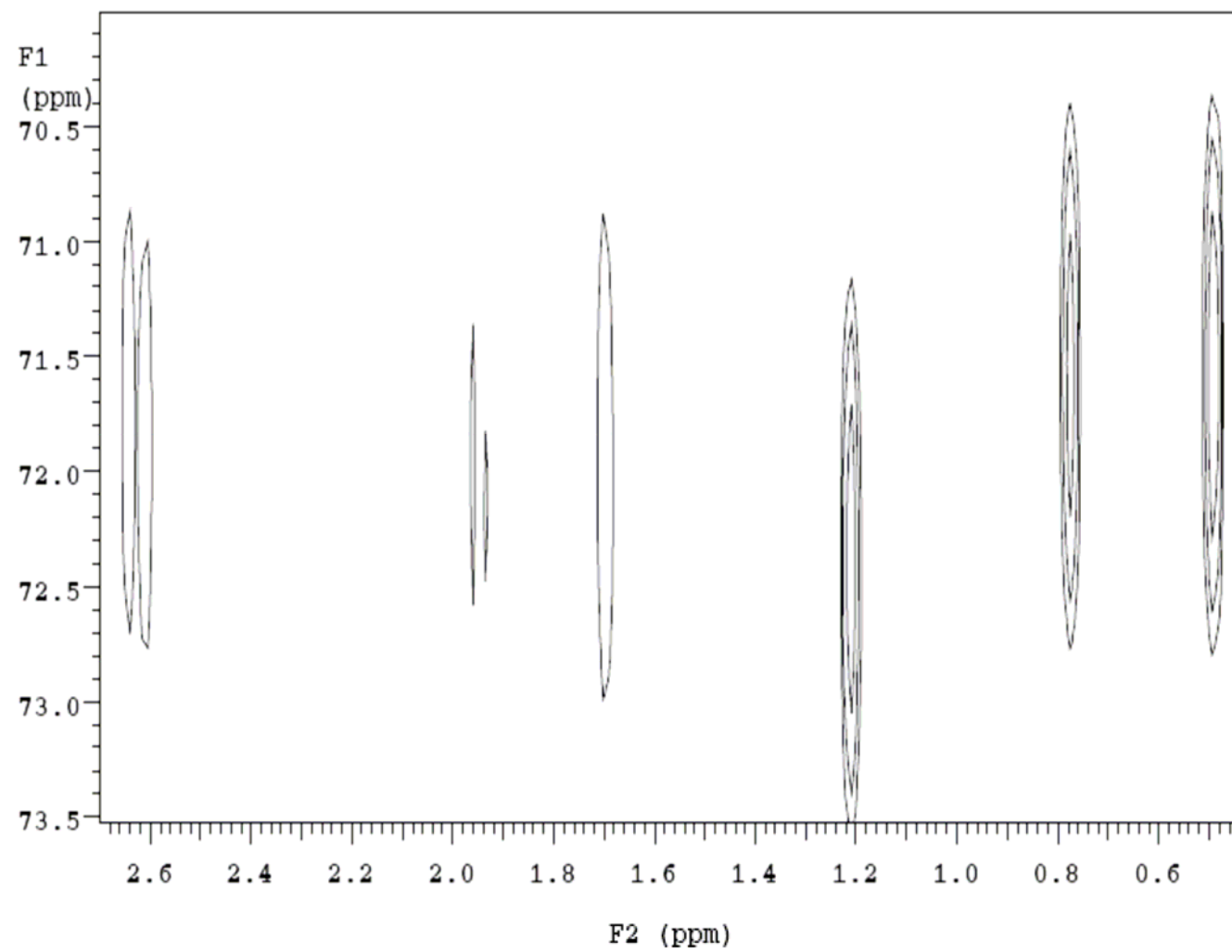
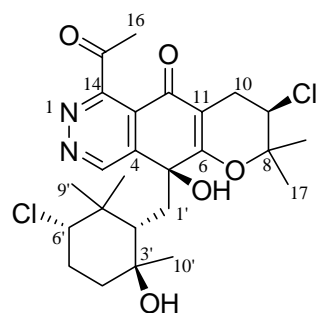


**Figure S5.** gHMBC NMR Spectrum (500 MHz) of Azamerone (**1**) in CD<sub>3</sub>OD

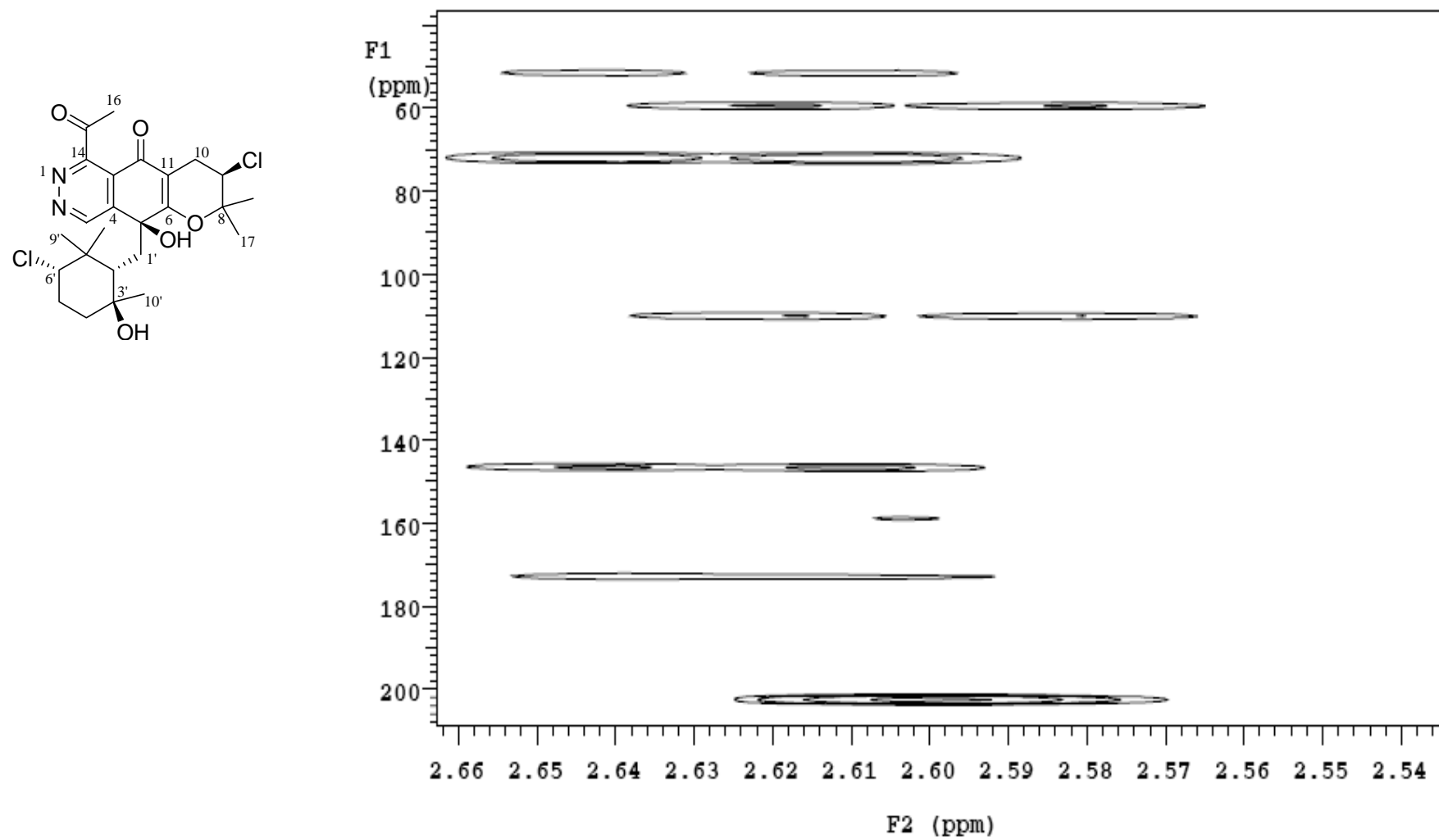




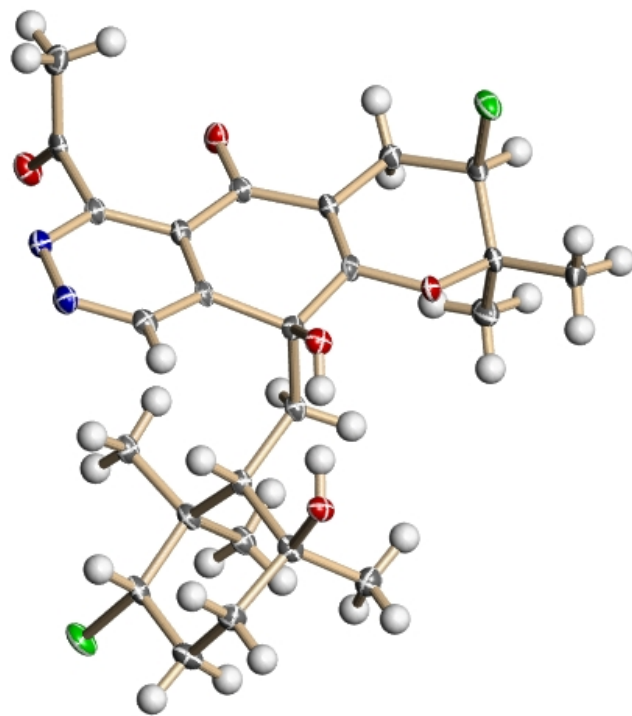
**Figure S6.** Expansion of gHMBC NMR Spectrum (500 MHz) of Azamerone (**1**) in CD<sub>3</sub>OD



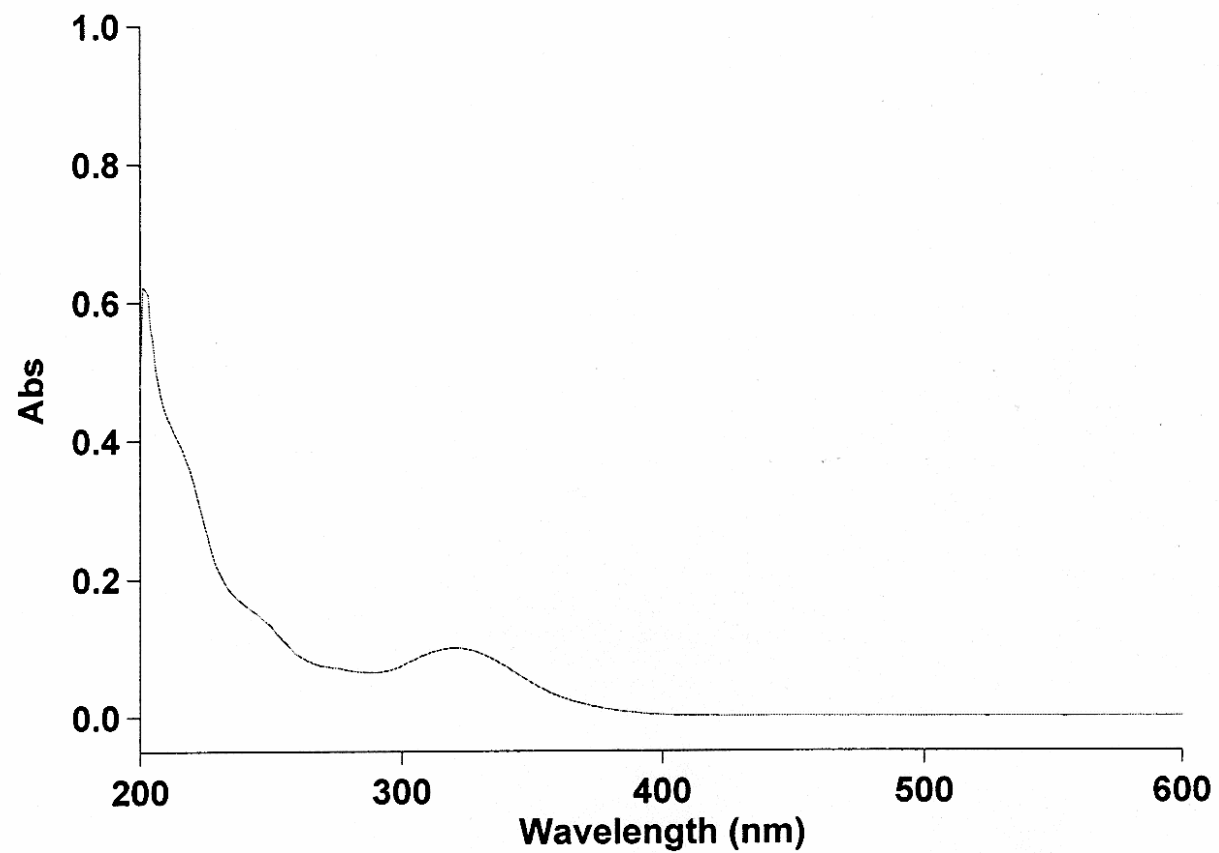
**Figure S7.** Expansion of gHMBC NMR Spectrum (500 MHz) of Azamerone (**1**) in CD<sub>3</sub>OD



**Figure S8.** Crystal structure



**Figure S9.** UV spectra of Azamerone (**1**) in CH<sub>3</sub>OH



**Figure S10.** HR-ESI-TOFMS of Azamerone (1) in CH<sub>3</sub>OH

