

Supporting Information for

Saccharomonopyrones A - C, New α -Pyrones from a Marine Sediment-Derived Bacterium *Saccharomonospora* sp. CNQ-490

Chae-Yoon Yim ^{1,†}, Tu Cam Le ^{1,†}, Tae Gu Lee ^{2,†}, Inho Yang ¹, Hansol Choi ¹, Jusung Lee ², Kyung-Yun Kang ³, Jin Sil Lee ⁴, Kyung-Min Lim ⁴, Sung-Tae Yee ³, Heonjoong Kang ^{2,5,*}, Sang-Jip Nam ^{1,*} and William Fenical ^{6,*}

¹ Department of Chemistry and Nanoscience, Ewha Womans University, Seoul 03760, Republic of Korea

² School of Earth and Environmental Sciences, Seoul National University, NS-80, Seoul 08826, Republic of Korea

³ College of Pharmacy, Suncheon National University, Suncheon, 57922, Republic of Korea

⁴ College of Pharmacy, Ewha Womans University, Seoul 03760, Republic of Korea

⁵ Research Institute of Oceanography, Seoul National University, NS-80, Seoul 08826, Republic of Korea

⁶ Center for Marine Biotechnology and Biomedicine, Scripps Institution of Oceanography, University of California-San Diego, La Jolla, CA 92093-0204, USA

* Correspondence: hjkang@snu.ac.kr; Tel.: +81-2-880-5730 (H.K.) sjnam@ewha.ac.kr; Tel.: +82-10-5210-7715 (S.N.) wfenical@ucsd.edu; Tel: +1-858-259-3839 (W.F.)

Table of Contents

Figure S1. ^1H NMR Spectrum (300 MHz) of saccharomonopyrone A (1) in DMSO- d_6	S3
Figure S2. ^{13}C NMR Spectrum (75 MHz) of saccharomonopyrone A (1) in DMSO- d_6	S4
Figure S3. gCOSY Spectra (500 MHz) of saccharomonopyrone A (1) in DMSO - d_6	S5
Figure S4. gHSQC Spectra (500 MHz) of saccharomonopyrone A (1) in DMSO - d_6	S6
Figure S5. gHMBC Spectra (500 MHz) of saccharomonopyrone A (1) in DMSO - d_6	S7
Figure S6. ^1H NMR Spectrum (300 MHz) of of saccharomonopyrone B (2) in DMSO - d_6	S8
Figure S7. ^{13}C NMR Spectrum (75 MHz) of saccharomonopyrone B (2) in DMSO - d_6	S9
Figure S8. gCOSY Spectra (500 MHz) of saccharomonopyrone A (2) in DMSO - d_6	S10
Figure S9. gHSQC Spectra (500 MHz) of saccharomonopyrone A (2) in DMSO - d_6	S11
Figure S10. gHMBC Spectra (500 MHz) of saccharomonopyrone A (2) in DMSO - d_6	S12
Figure S11. ^1H NMR Spectrum (300 MHz) of saccharomonopyrone C (3) in DMSO - d_6	S13
Figure S12. ^{13}C NMR Spectrum (75 MHz) of saccharomonopyrone C (3) in DMSO - d_6	S14
Figure S13. gCOSY Spectra (500 MHz) of saccharomonopyrone A (3) in DMSO - d_6	S15
Figure S14. gHSQC Spectra (500 MHz) of saccharomonopyrone A (3) in DMSO - d_6	S16
Figure S15. gHMBC Spectra (500 MHz) of saccharomonopyrone A (3) in DMSO - d_6	S17
Figure S16. UV spectra of Saccharomonopyrones.....	S18

Figure S1. ^1H NMR Spectrum (300 MHz) of Saccharomonopyrone A (**1**) in $\text{DMSO-}d_6$

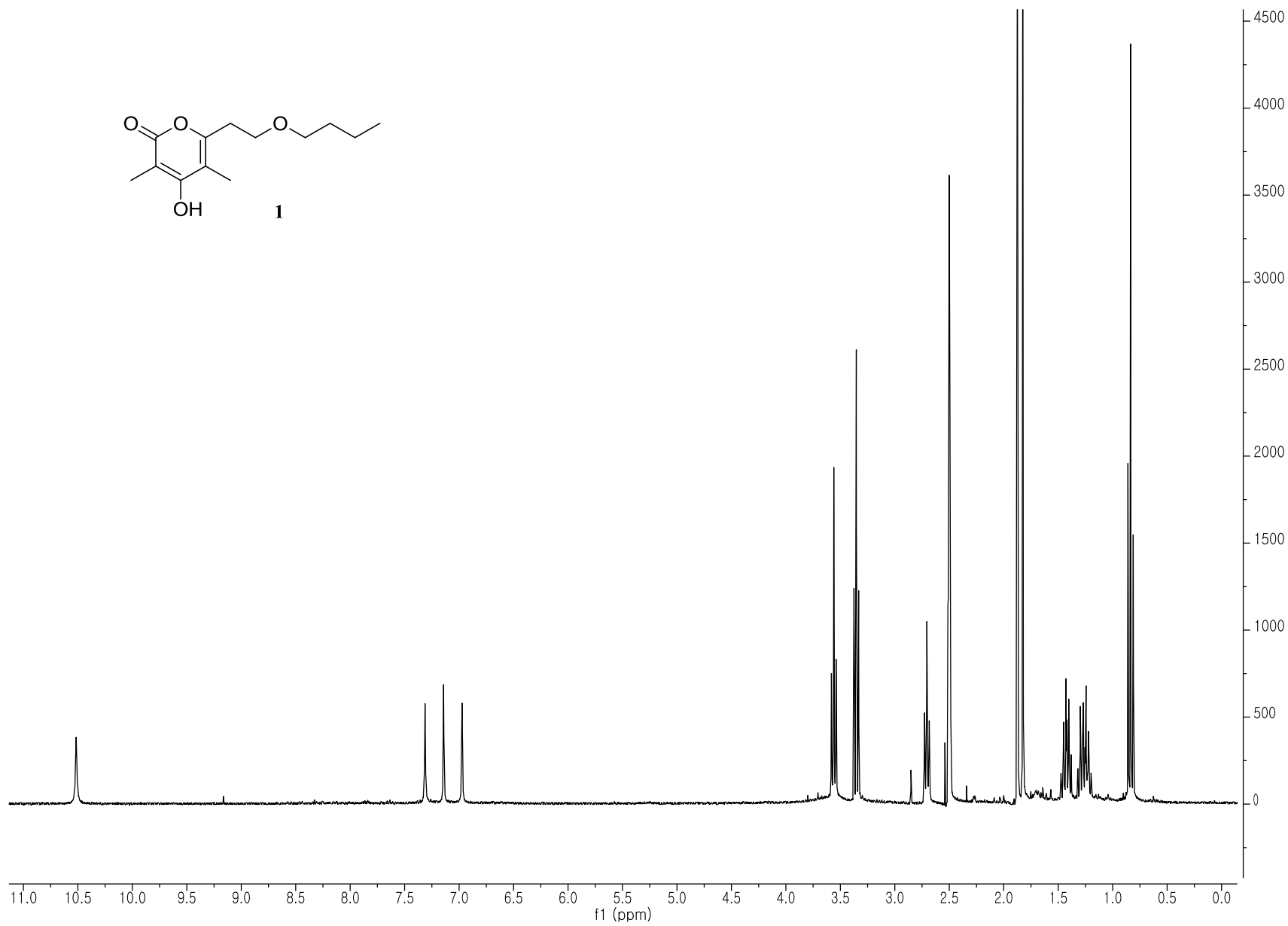


Figure S2. ^{13}C NMR Spectrum (75 MHz) of Saccharomonopyrone A (**1**) in $\text{DMSO-}d_6$

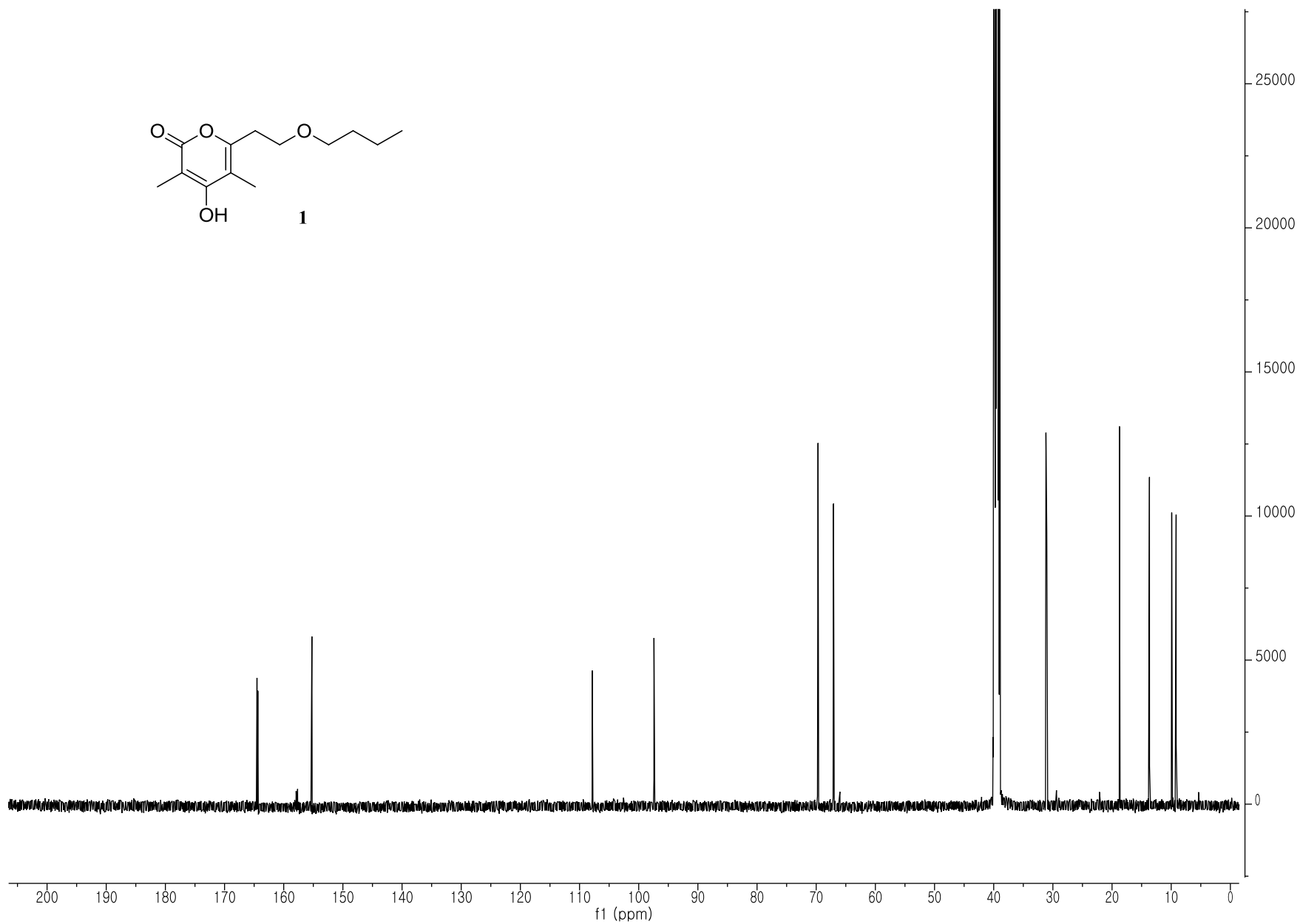


Figure S3. gCOSY Spectra (500 MHz) of Saccharomonopyrone A (**1**) in DMSO- d_6

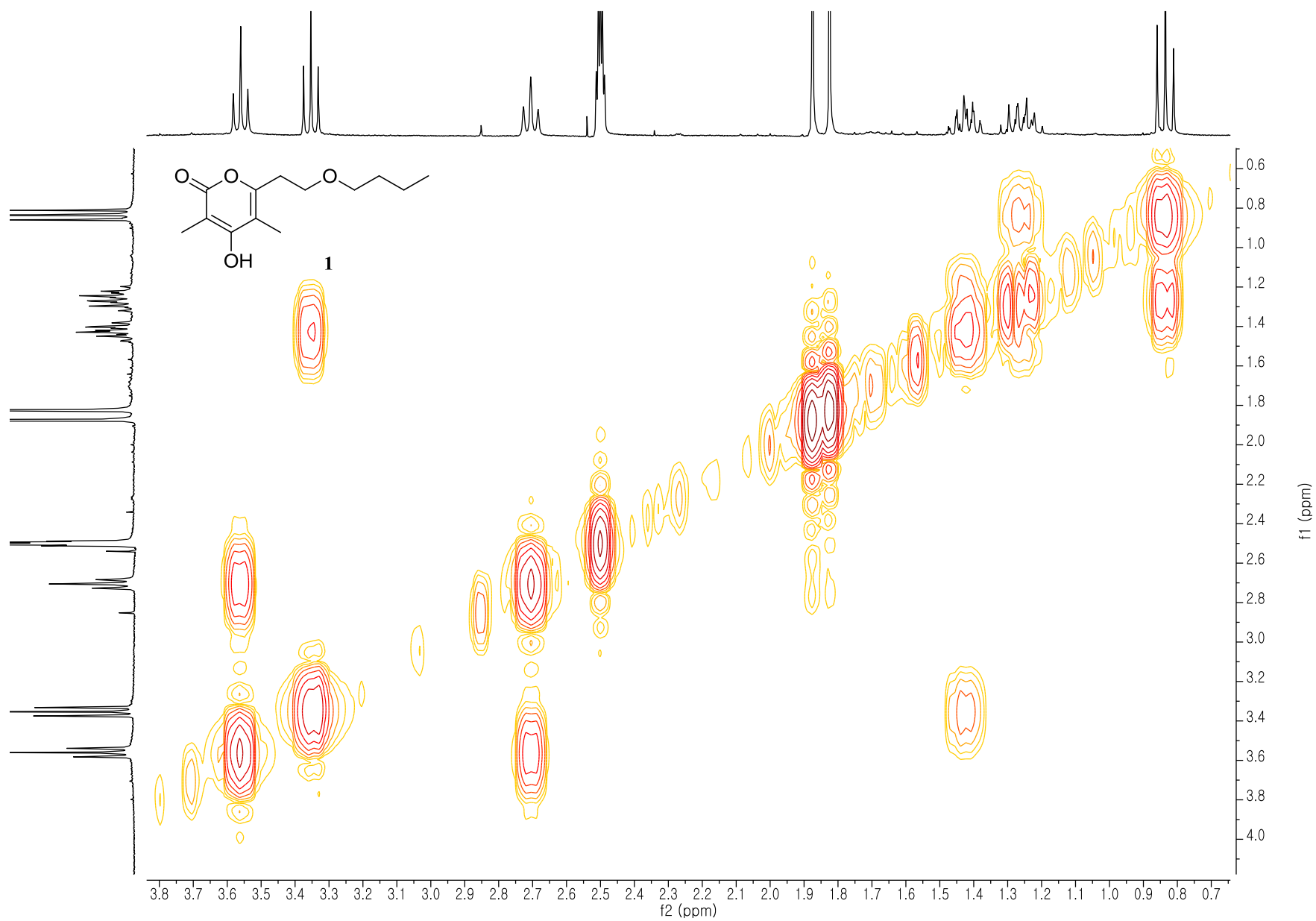


Figure S4. gHSQC Spectra (500 MHz) of Saccharomonopyrone A (**1**) in DMSO- d_6

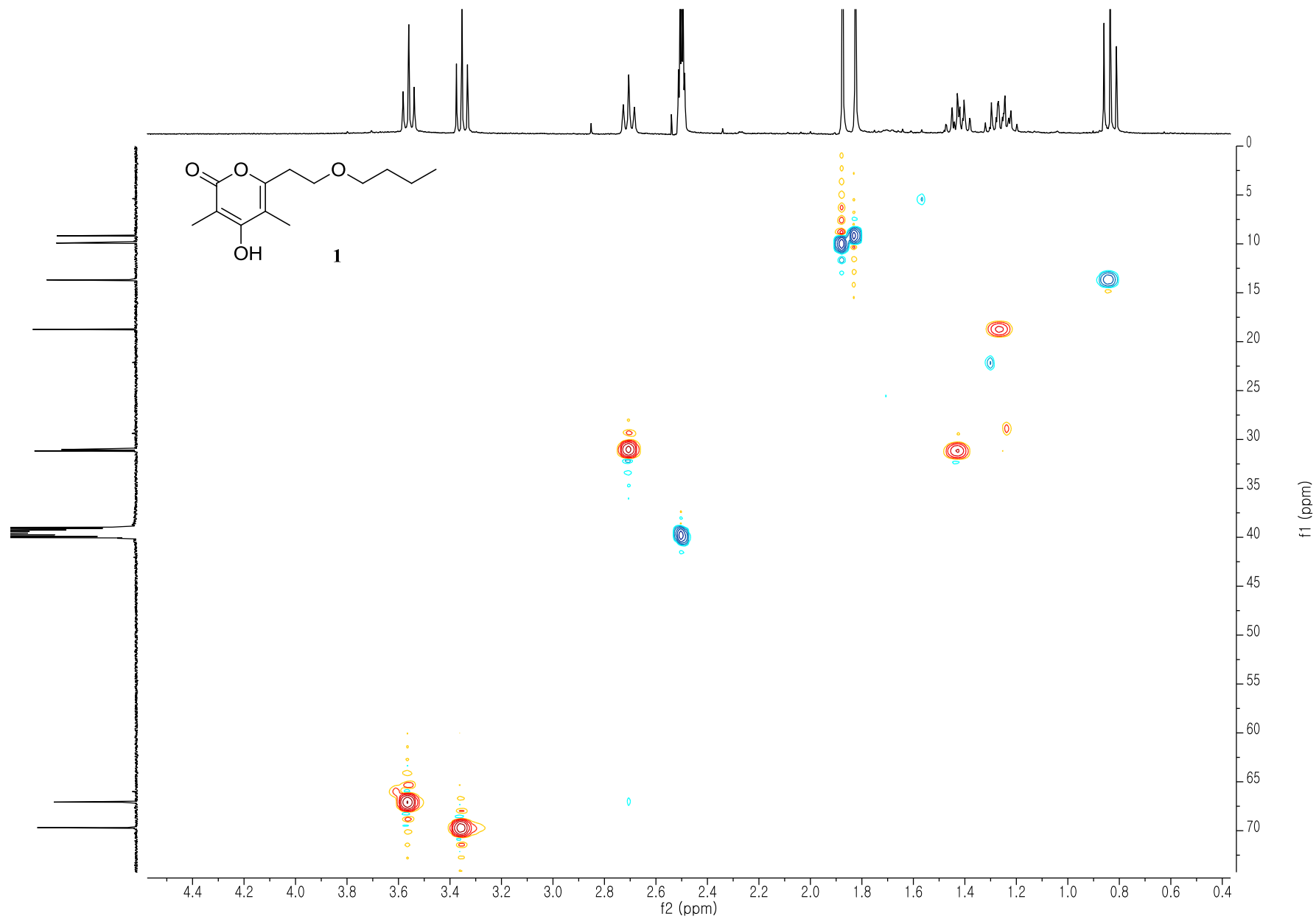


Figure S5. gHMBC Spectra (500 MHz) of Saccharomonopyrone A (**1**) in DMSO-*d*₆

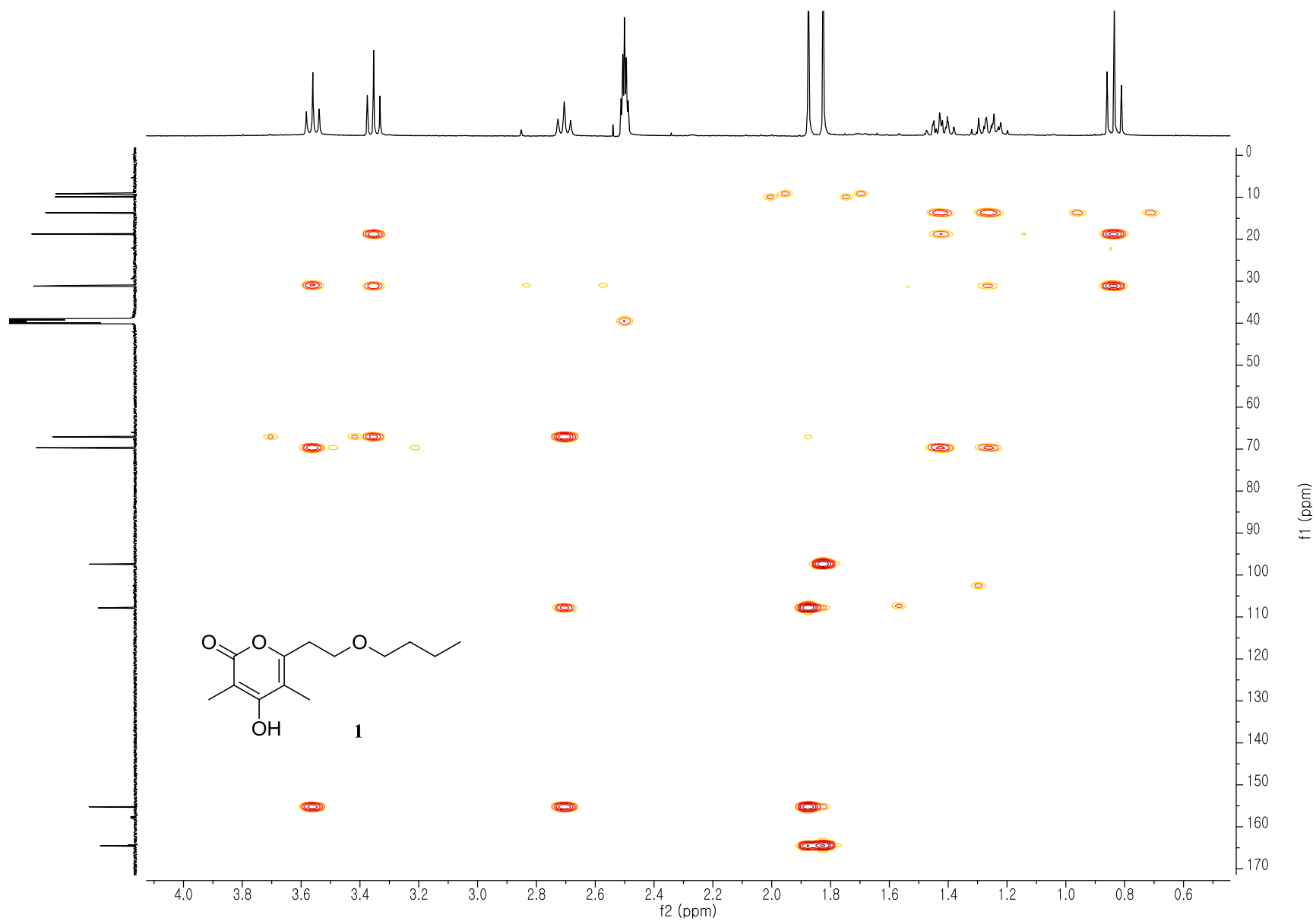


Figure S6. ^1H NMR Spectrum (300 MHz) of Saccharomonopyrone B (**2**) in $\text{DMSO-}d_6$

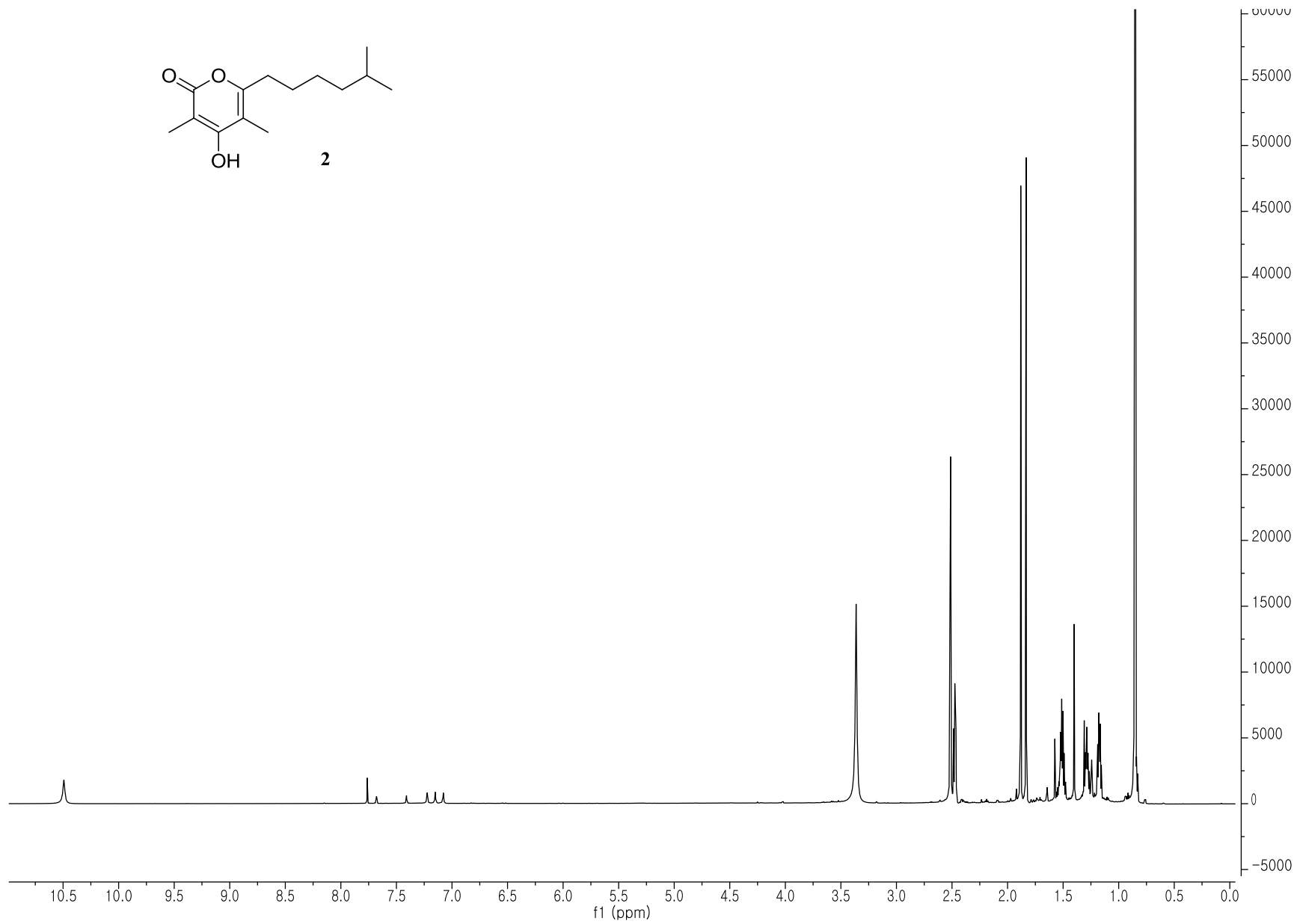


Figure S7. ^{13}C NMR Spectrum (75 MHz) of Saccharomonopyrone B (**2**) in $\text{DMSO-}d_6$

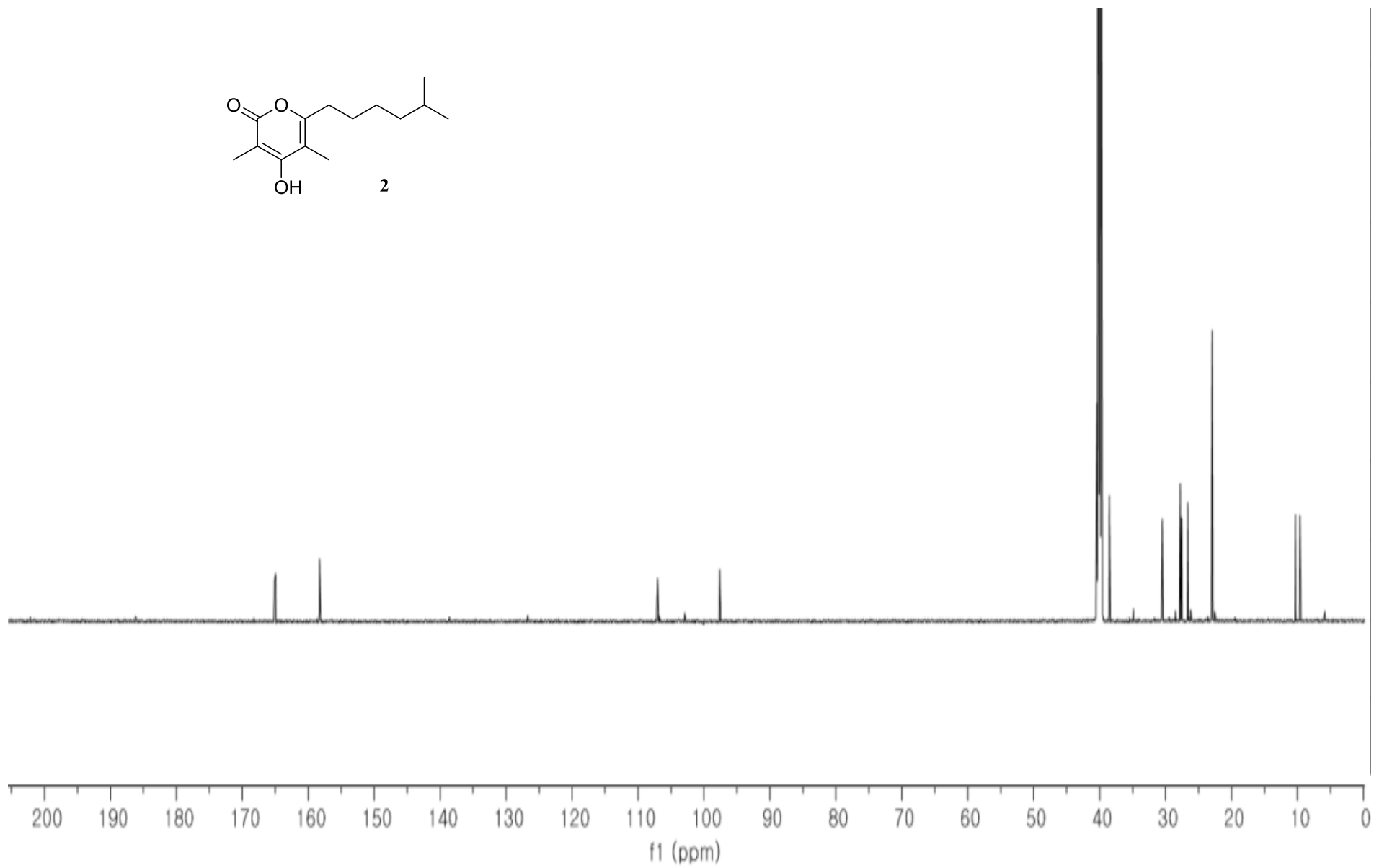


Figure S8. gCOSY Spectra (500 MHz) of Saccharomonopyrone A (**2**) in DMSO-*d*₆

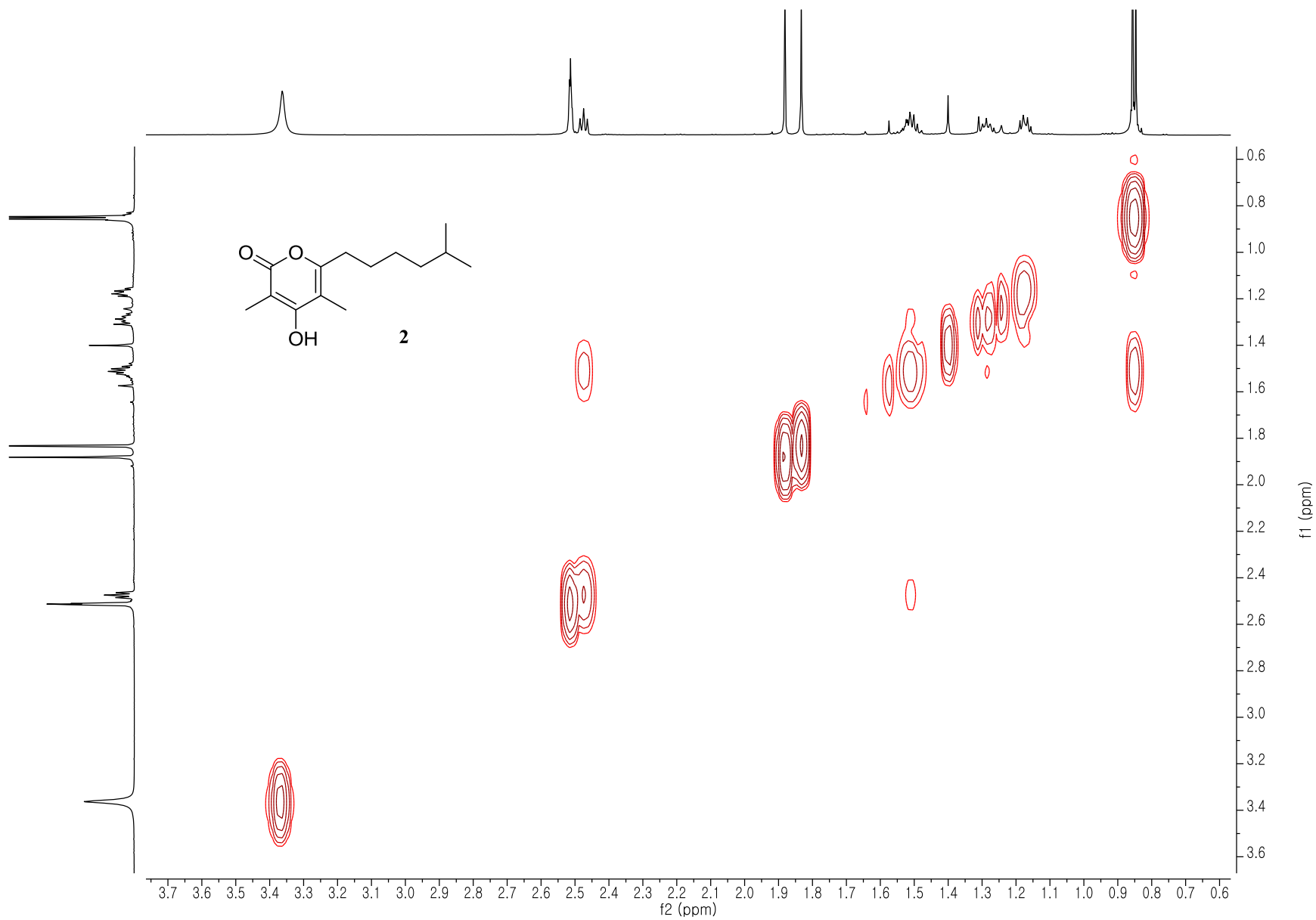


Figure S9. gHSQC Spectra (500 MHz) of Saccharomonopyrone A (**2**) in DMSO-*d*₆

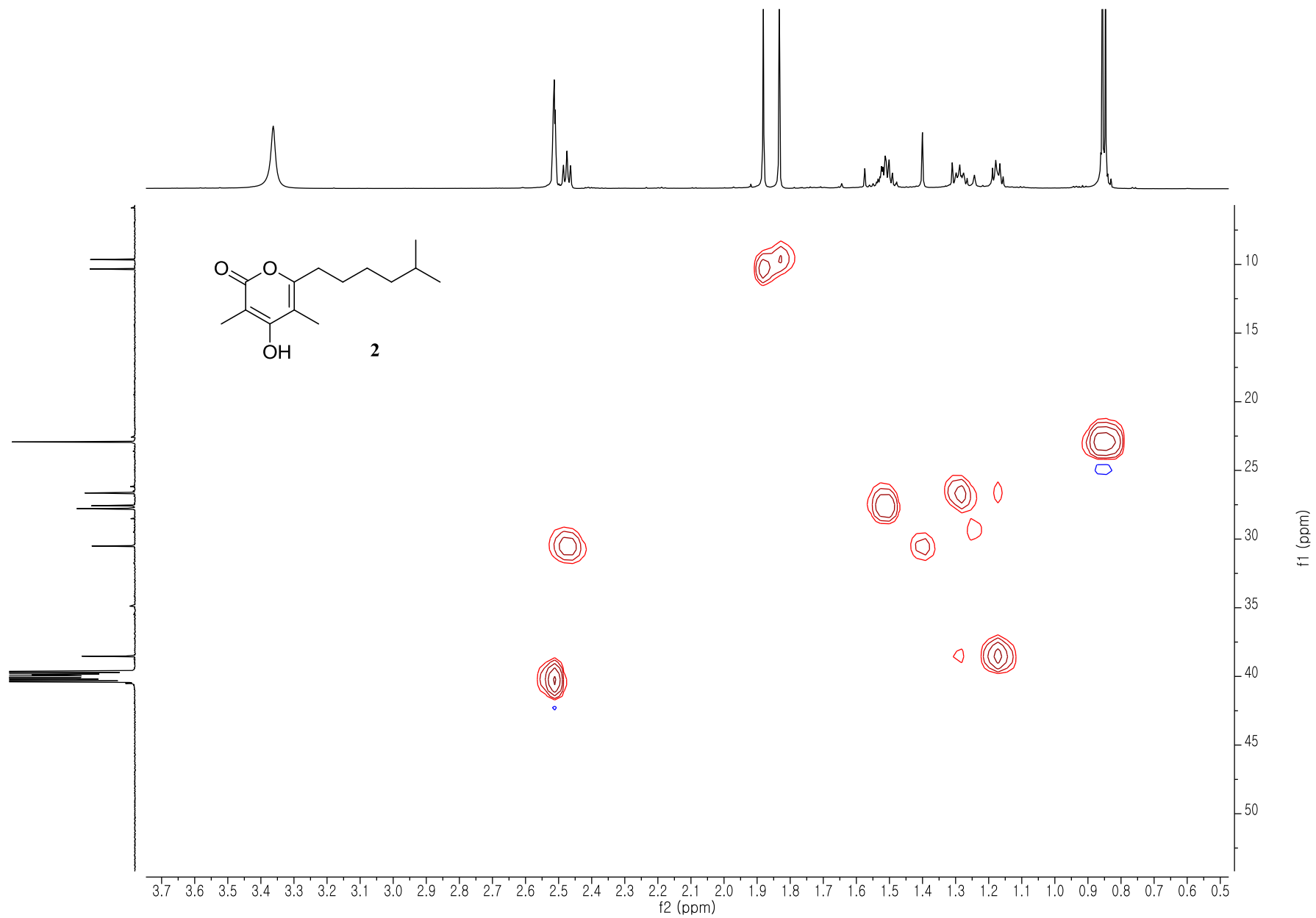


Figure S10. gHMBC Spectra (500 MHz) of Saccharomonopyrone A (**2**) in DMSO- d_6

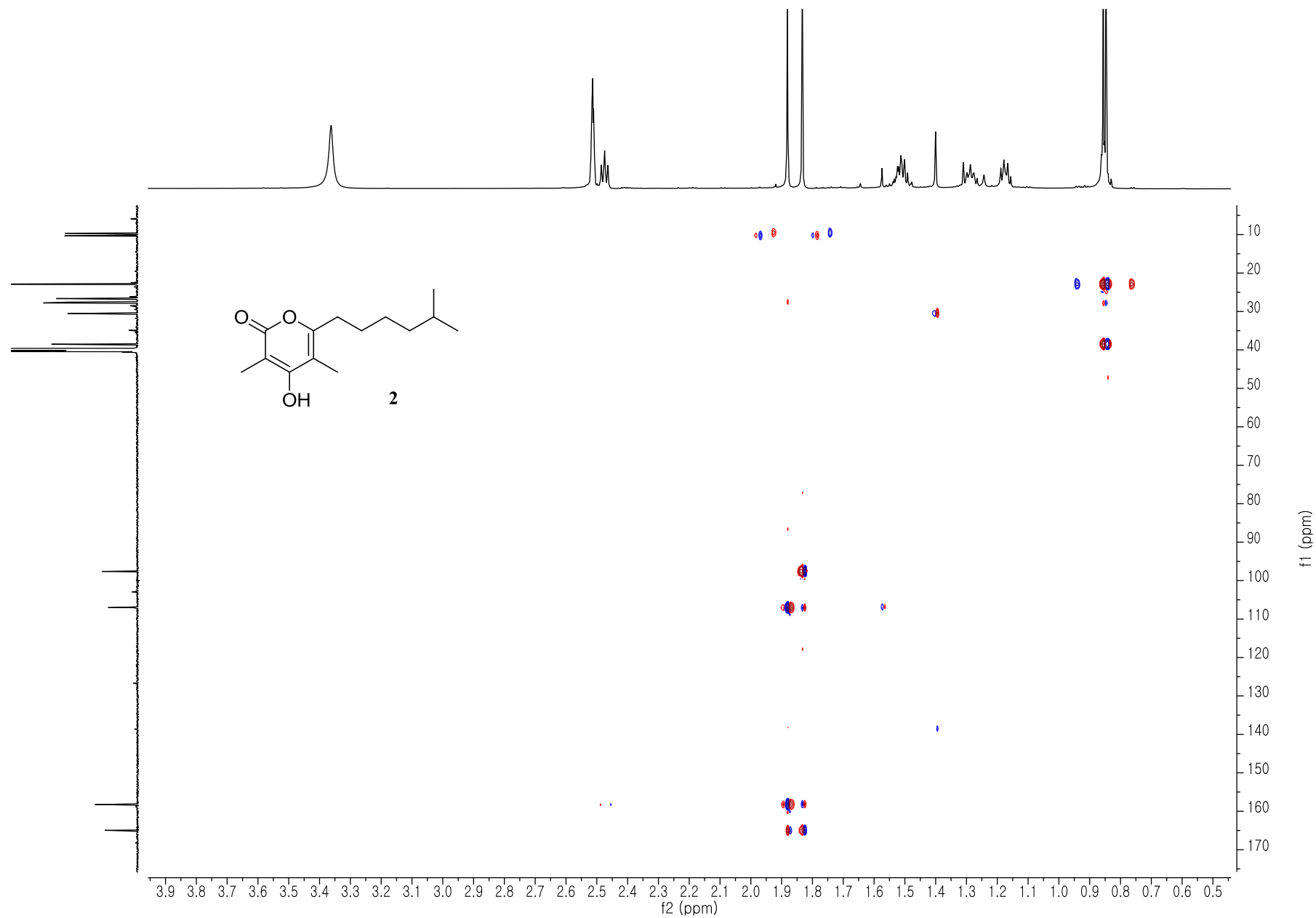


Figure S11. ^1H NMR Spectrum (300 MHz) of Saccharomonopyrone C (**3**) in $\text{DMSO-}d_6$

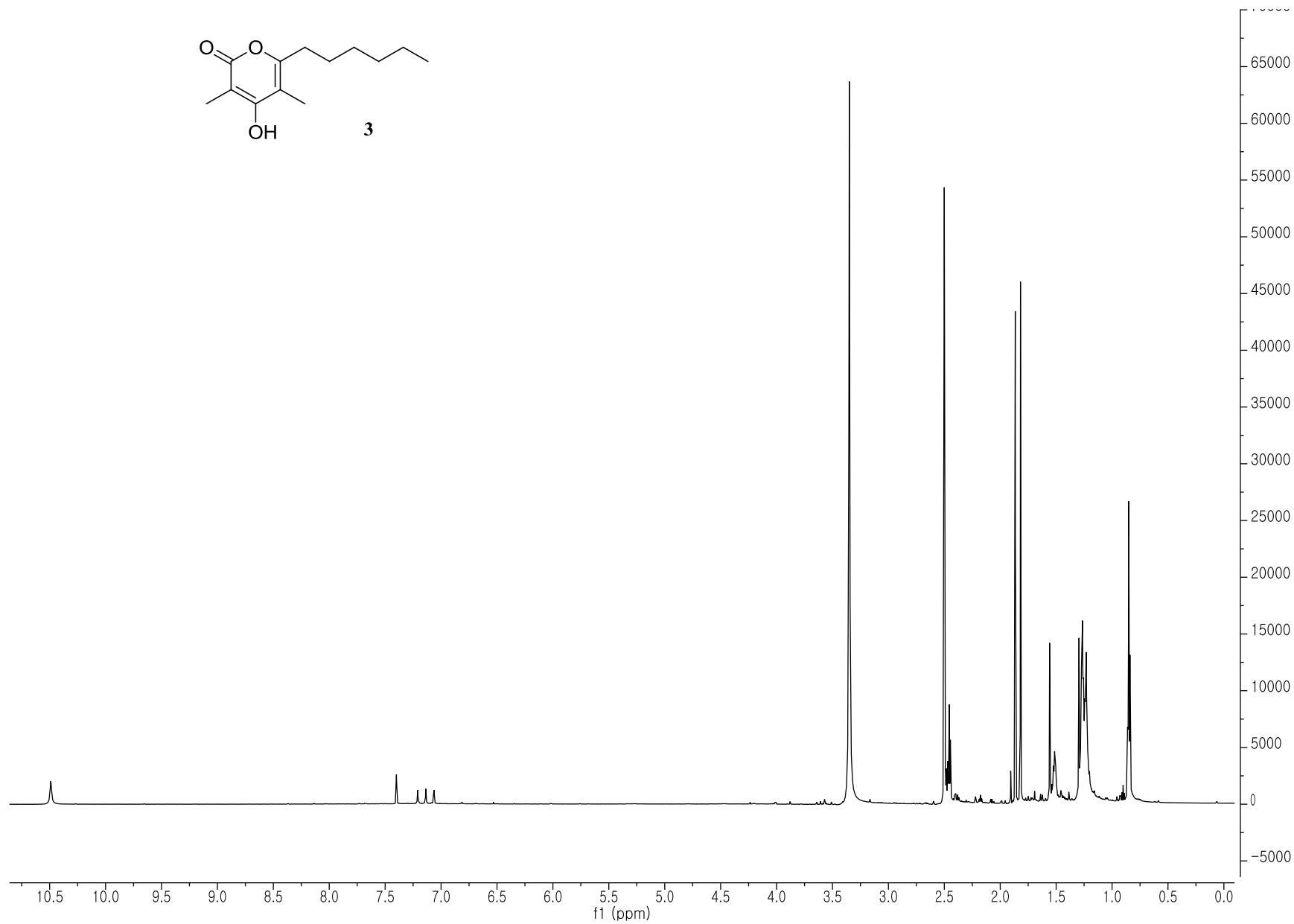


Figure S12. ^{13}C NMR Spectrum (75 MHz) of Saccharomonopyrone C (**3**) in $\text{DMSO-}d_6$

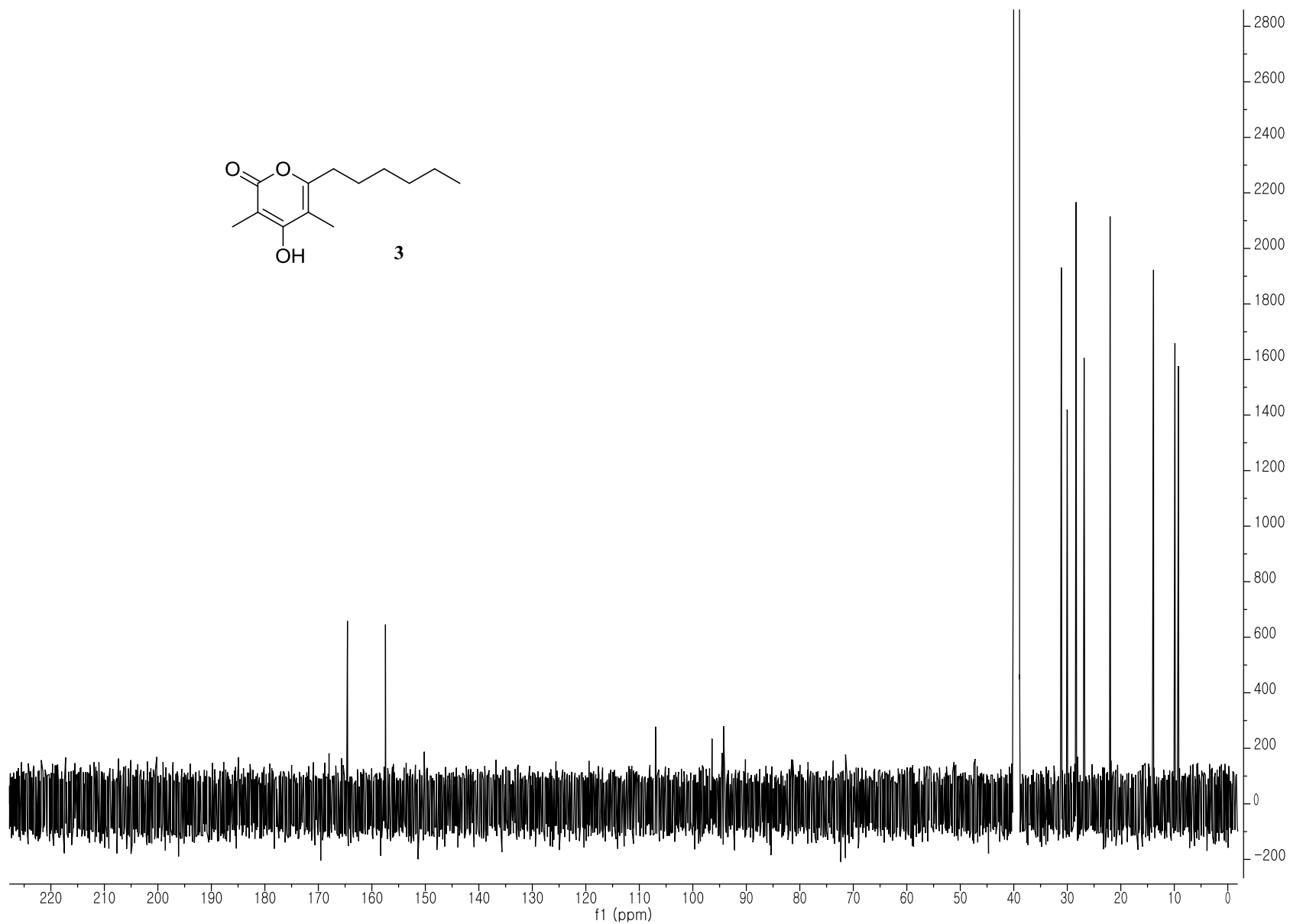


Figure S13. gCOSY Spectra (500 MHz) of Saccharomonopyrone A (**3**) in DMSO-*d*₆

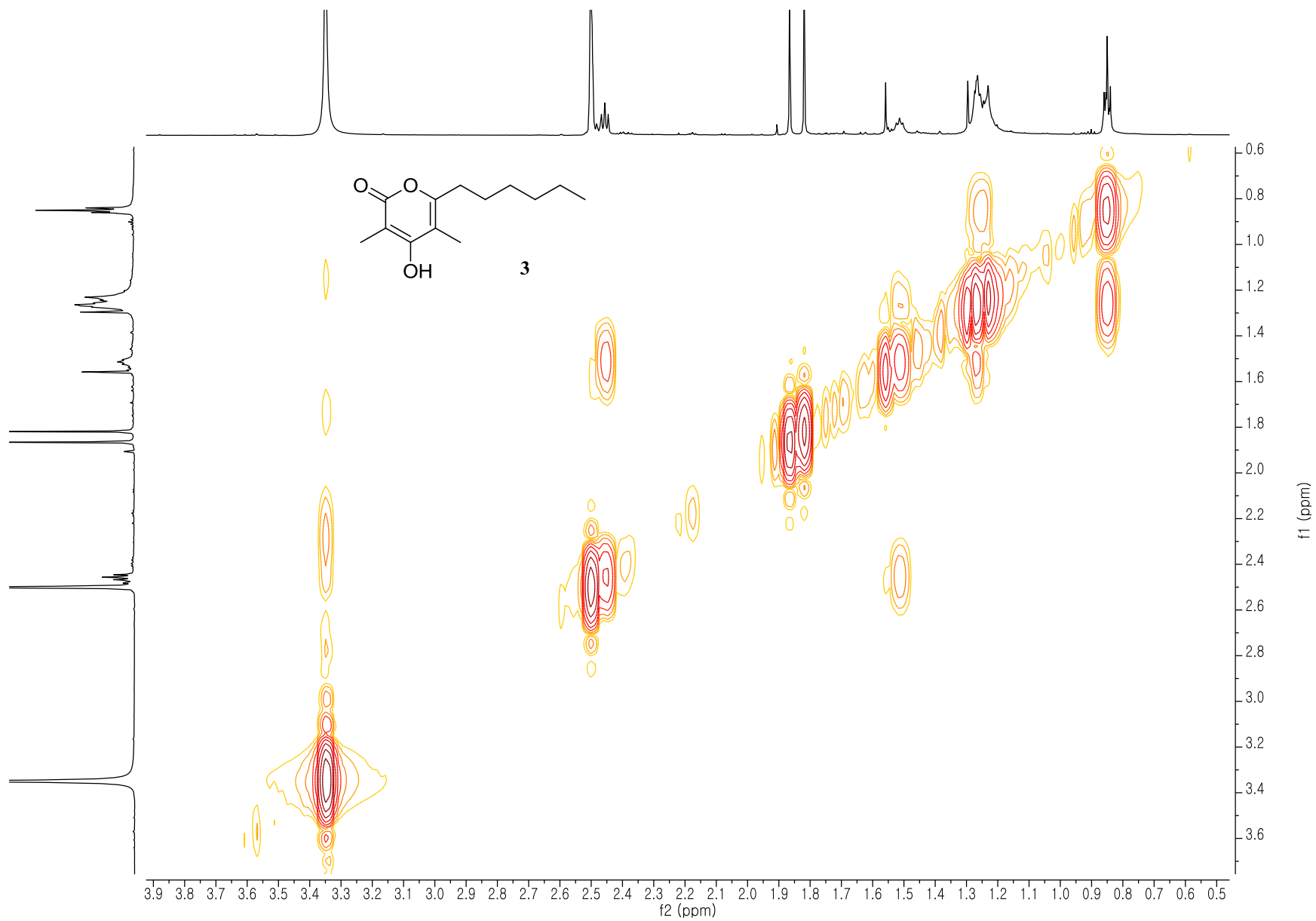


Figure S14. gHSQC Spectra (500 MHz) of Saccharomonopyrone A (**3**) in DMSO-*d*₆

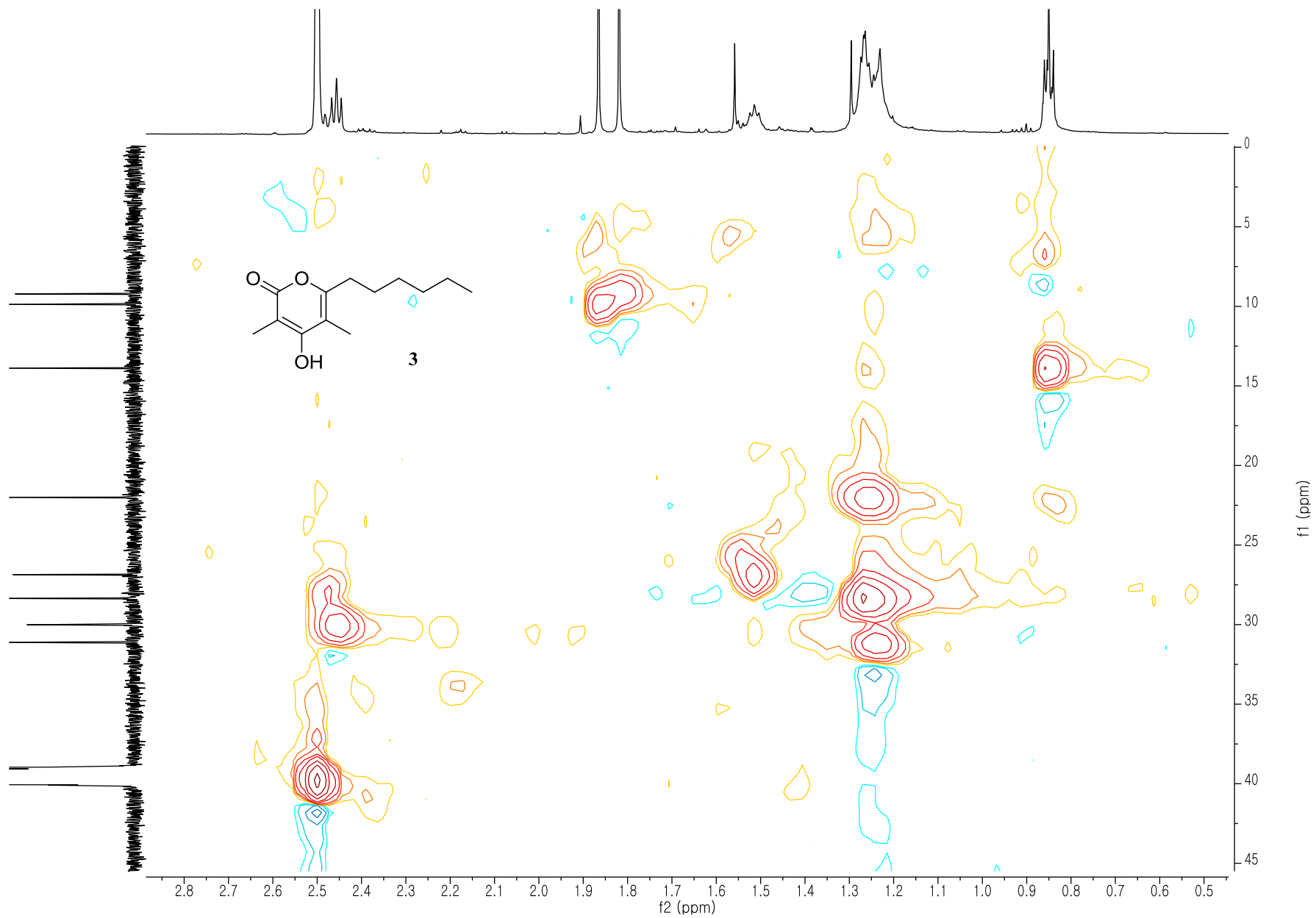


Figure S15. gHMBC Spectra (500 MHz) of Saccharomonopyrone A (**3**) in DMSO- d_6

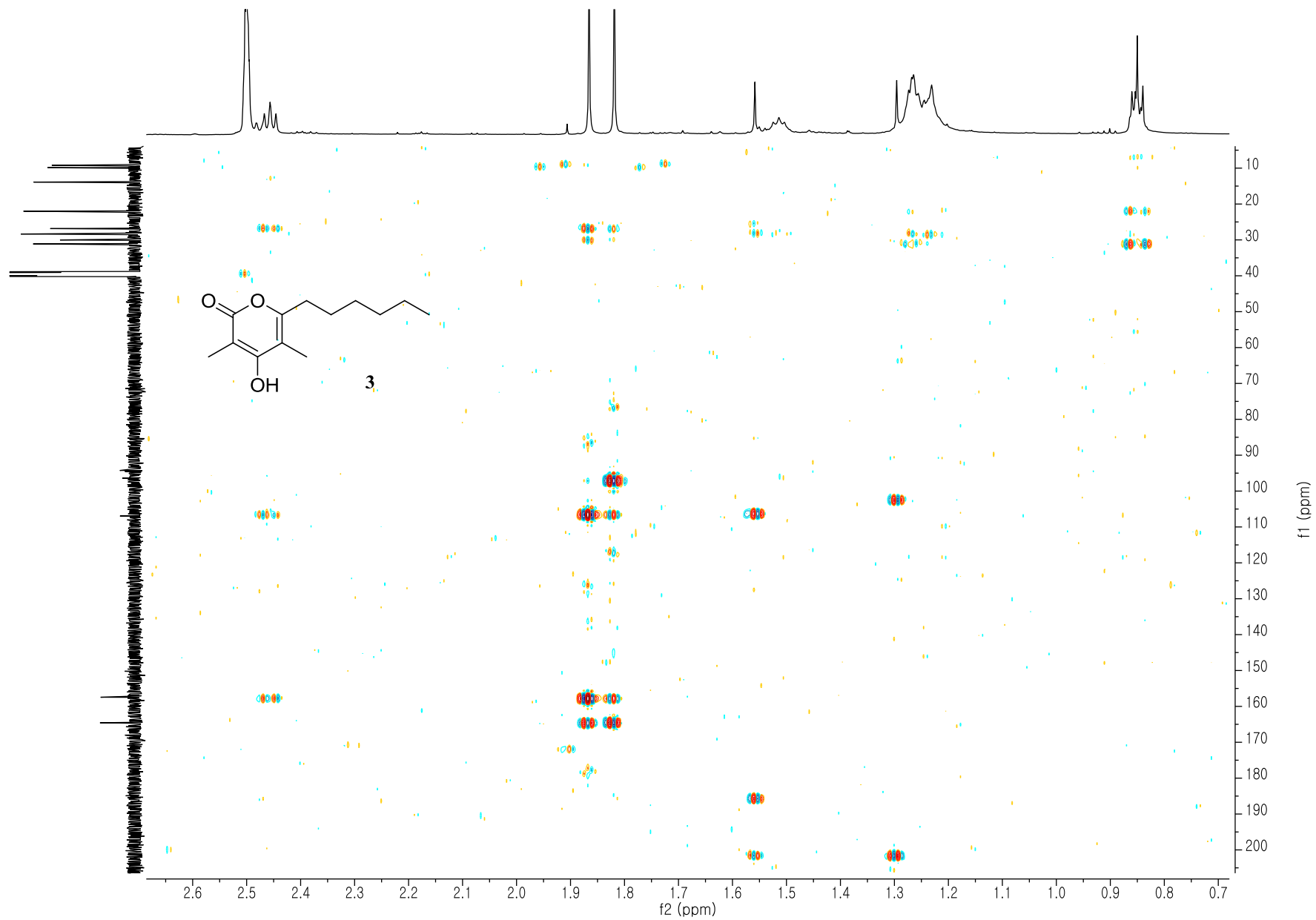
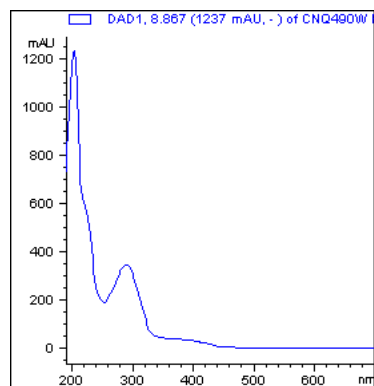
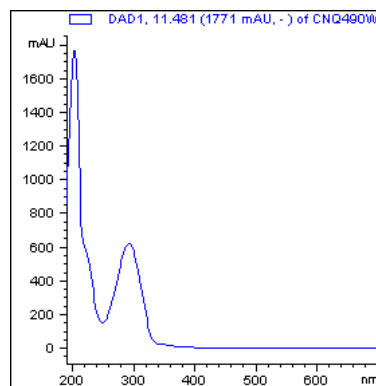


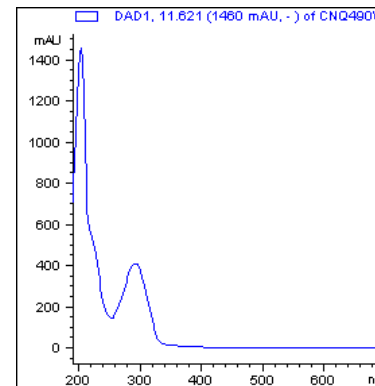
Figure S16. UV spectra of Saccharomonopyrones.



Saccharomonopyrone A



Saccharomonopyrone B



Saccharomonopyrone C