

Article

Microbial Transformation and Biological Activities of the Prenylated Aromatic Compounds from *Broussonetia kazinoki*

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Table S1. Screening for the microorganisms that metabolize kazinol C (1) and F (3).

Microorganism	Capability [*]	
	Kazinol C	Kazinol F
<i>A. alternata</i>	(-)	(+)
<i>A. coerulea</i>	(-)	(+)
<i>A. fumigatus</i>	(-)	(-)
<i>A. oryzae</i>	(-)	(-)
<i>C. elegans</i> var. <i>elegans</i>	(-)	(-)
<i>F. merismoides</i>	(-)	(-)
<i>G. deliquescens</i>	(+)	(+)
<i>G. cingulata</i>	(-)	(-)
<i>H. resinae</i>	(-)	(-)
<i>M. rubber</i>	(-)	(-)
<i>M. ramanniana</i> var. <i>angulispora</i>	(-)	(-)
<i>M. hiemalis</i>	(++)	(++)
<i>P. chrysogenum</i>	(-)	(-)
<i>T. koningii</i>	(-)	(-)

^{*} Capability of transformation Kazinol C (1) and F (3): (-) no transformation; (+) lower yield of metabolites; (++) higher yield of metabolites.

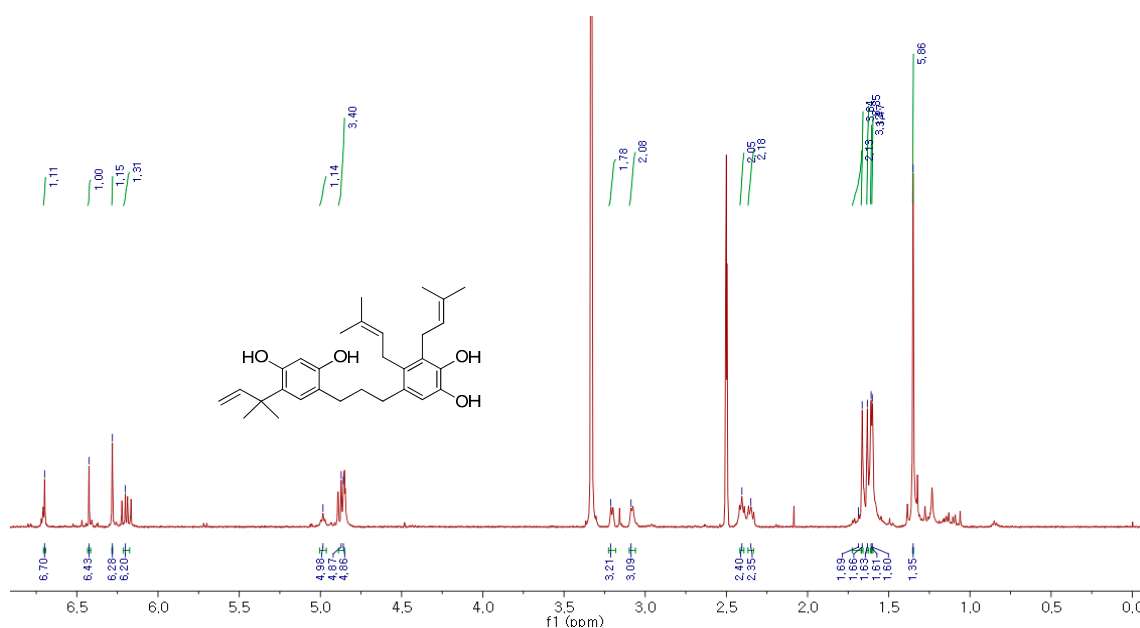


Figure S1. ¹H NMR spectrum of compound 1 recorded at 500 MHz in DMSO-*d*₆.

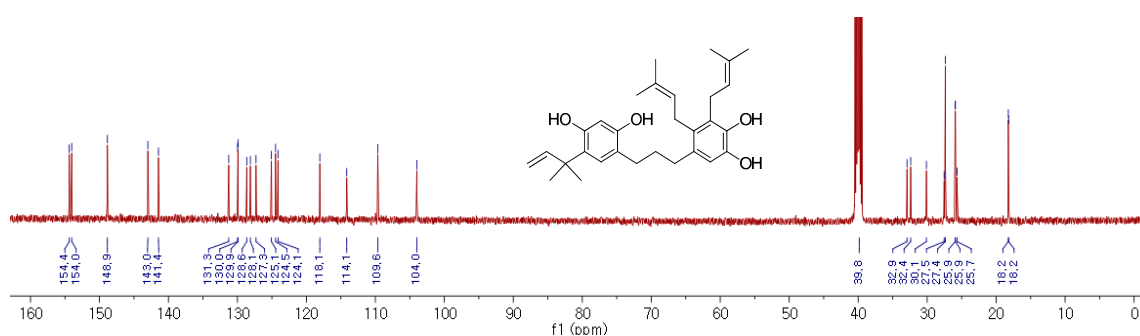


Figure S2. ¹³C NMR spectrum of compound 1 recorded at 125 MHz in DMSO-*d*₆.

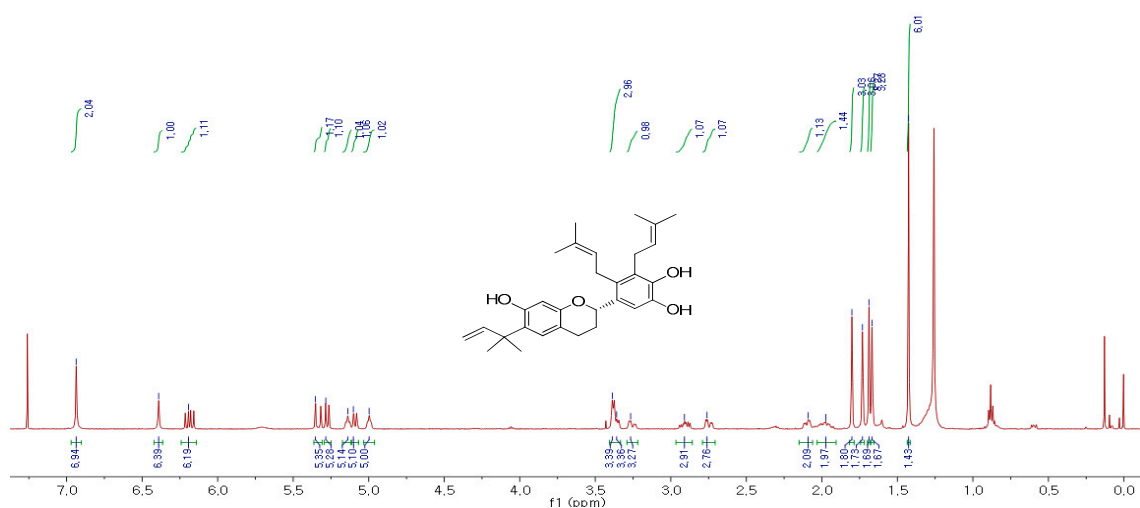


Figure S3. ¹H NMR spectrum of compound 2 recorded at 500 MHz in CDCl₃.

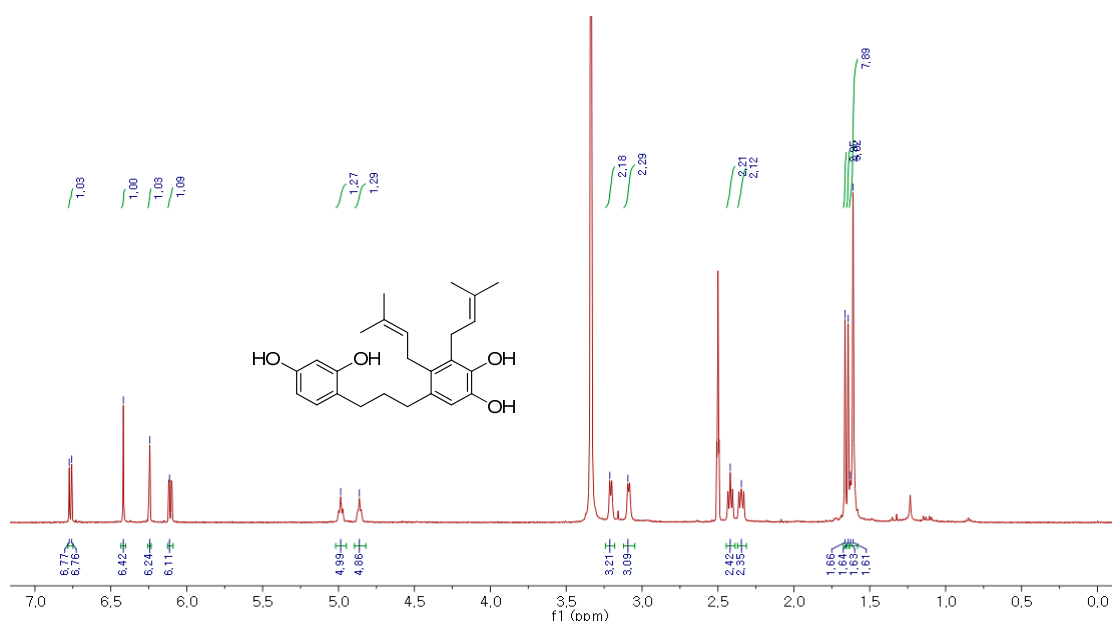


Figure S4. ¹H NMR spectrum of compound 3 recorded at 500 MHz in DMSO-*d*₆.

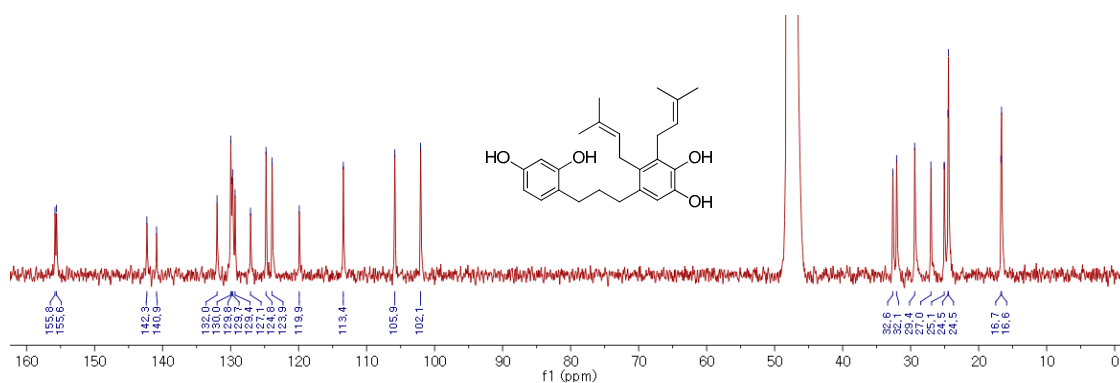


Figure S5. ¹³C NMR spectrum of compound 3 recorded at 125 MHz in DMSO-*d*₆.

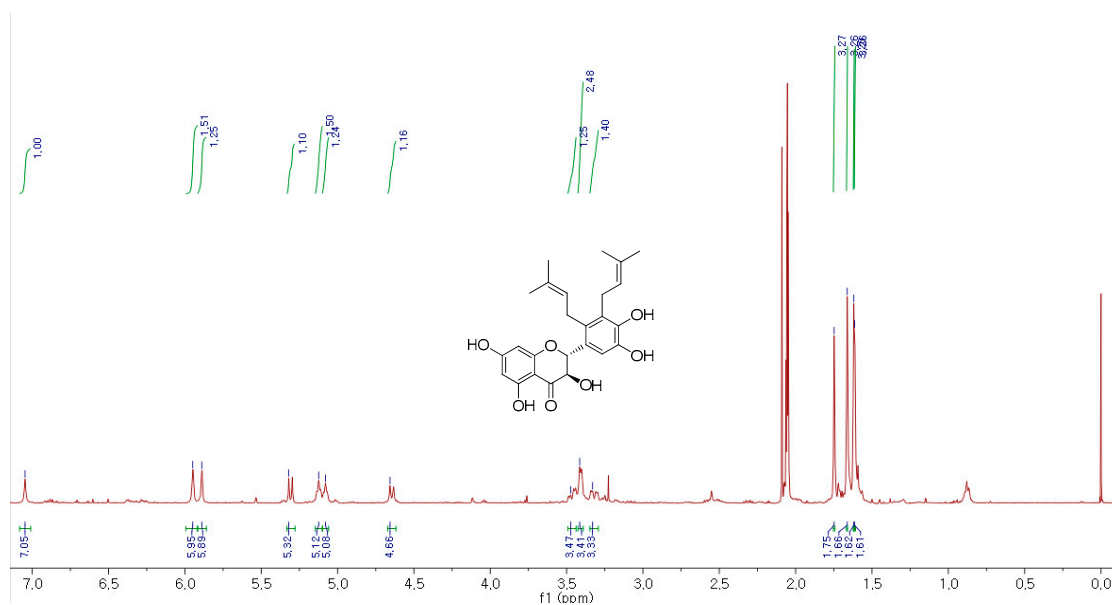


Figure S6. ¹H NMR spectrum of compound 4 recorded at 600 MHz in Acetone-*d*₆.

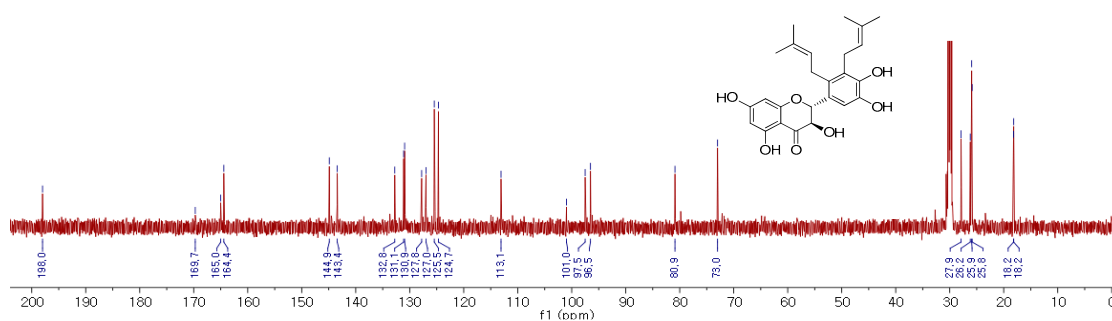


Figure S7. ¹³C NMR spectrum of compound 4 recorded at 150 MHz in Acetone-*d*₆.

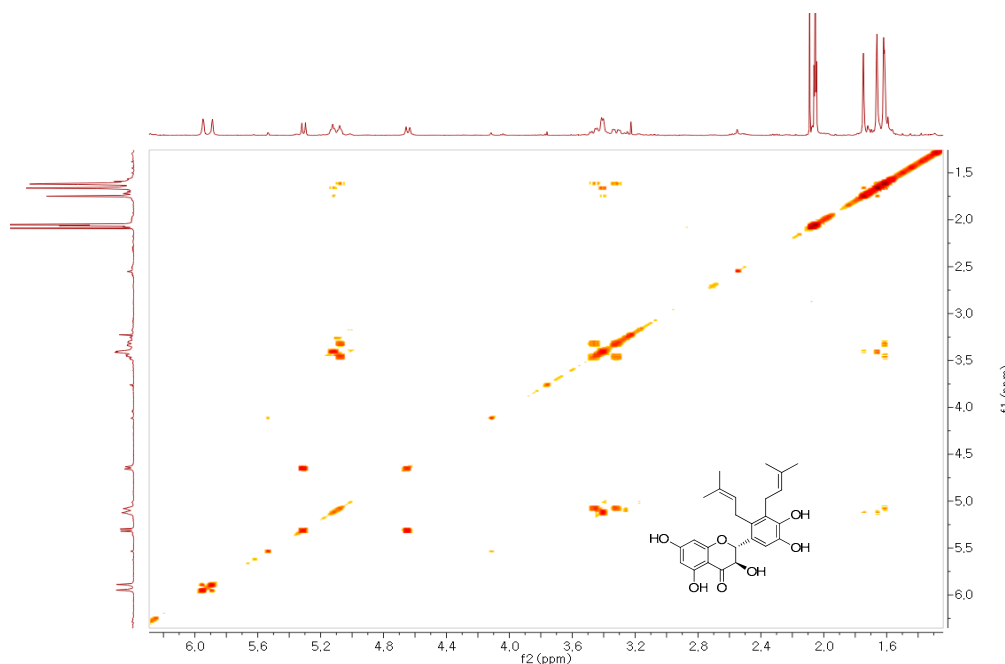


Figure S8. COSY spectrum of compound 4 recorded in Acetone-*d*₆.

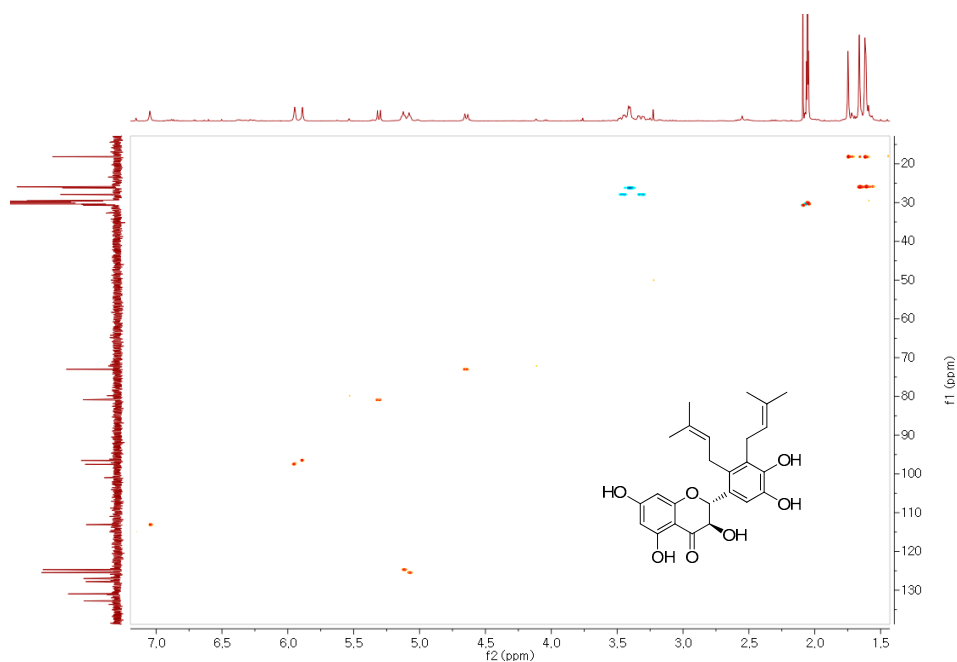


Figure S9. HSQC spectrum of compound 4 recorded in Acetone-*d*₆.

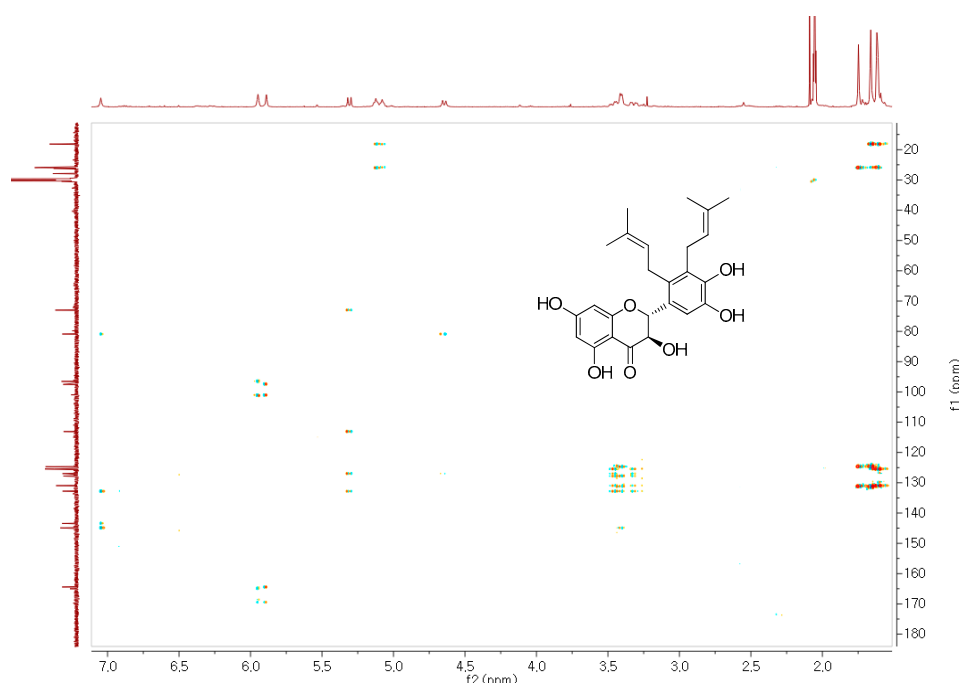


Figure S10. HMBC spectrum of compound 4 recorded in Acetone- d_6 .

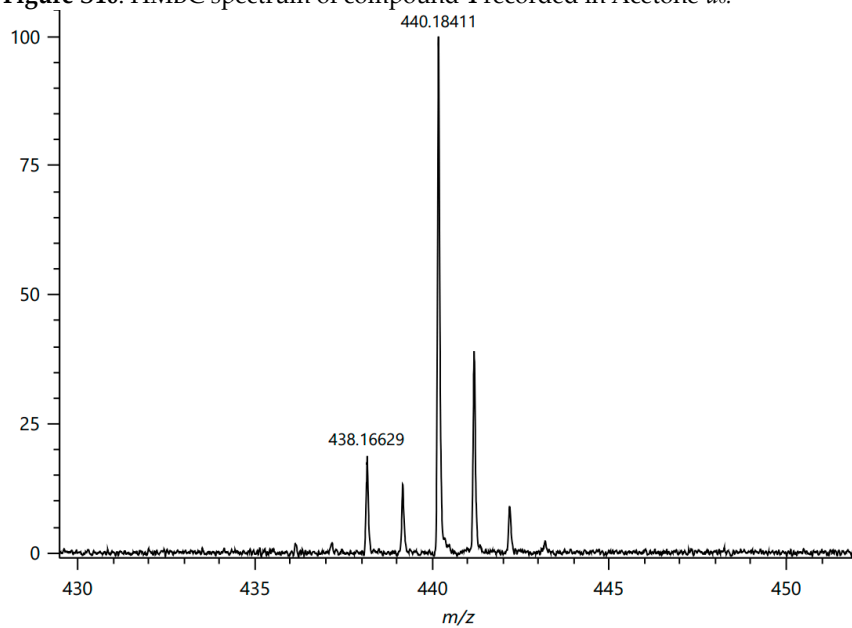


Figure S11. The HRFDMS spectrum of compound 4.

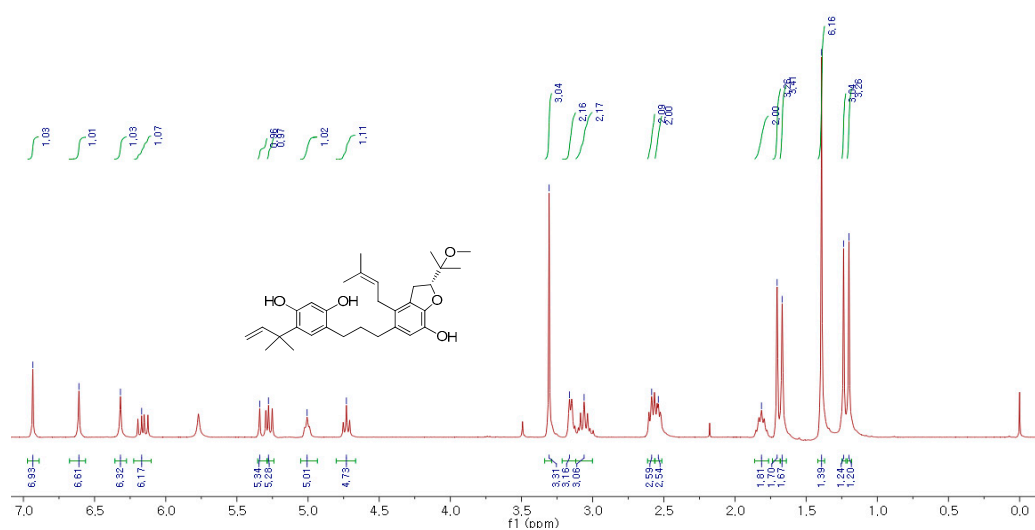


Figure S12. ¹H NMR spectrum of compound 5 recorded at 400 MHz in CDCl₃.

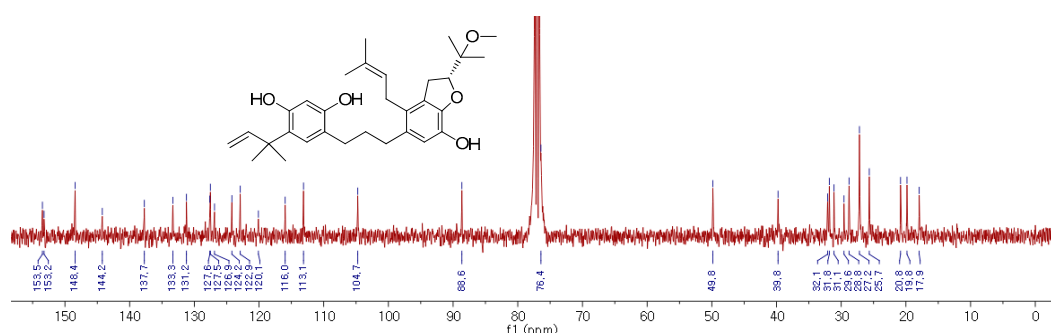


Figure S13. ¹³C NMR spectrum of compound 5 recorded at 100 MHz in CDCl₃.

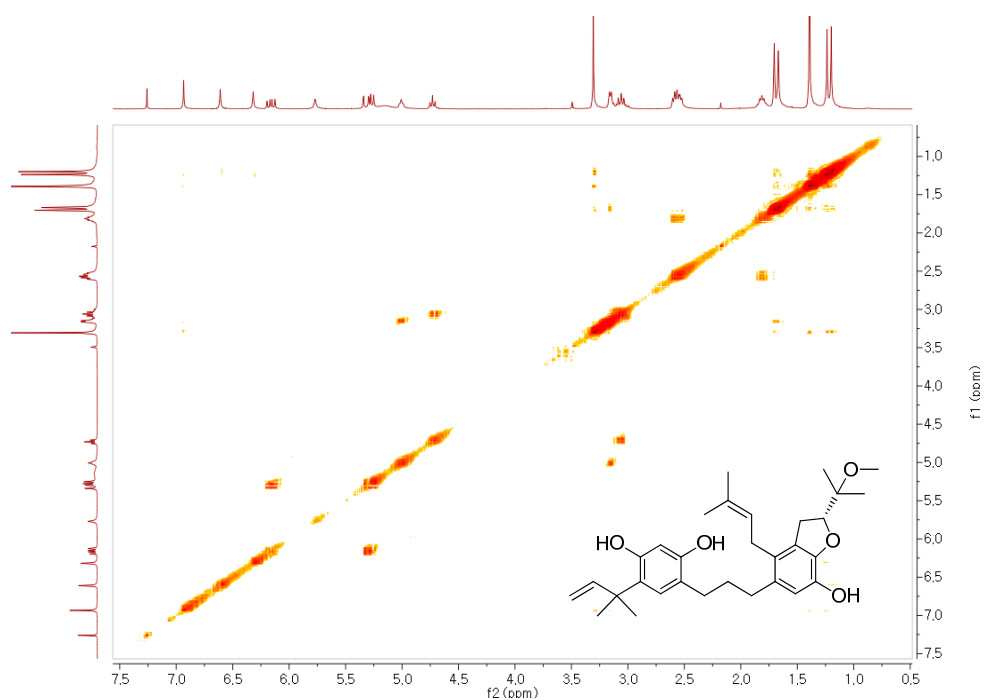


Figure S14. COSY spectrum of compound 5 recorded in CDCl₃.

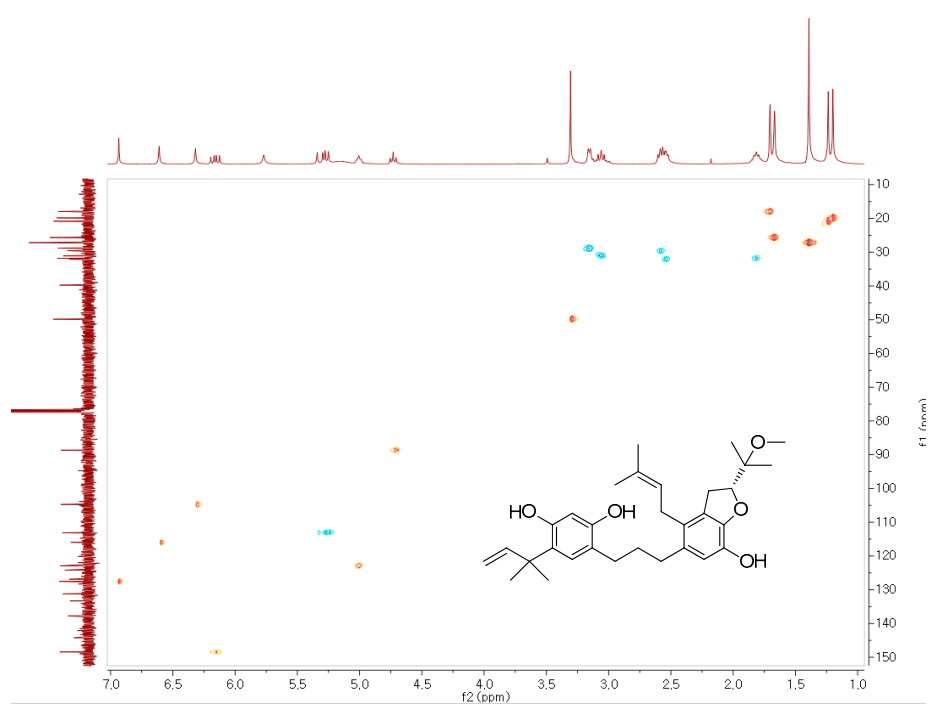


Figure S15. HSQC spectrum of compound 5 recorded in CDCl₃.

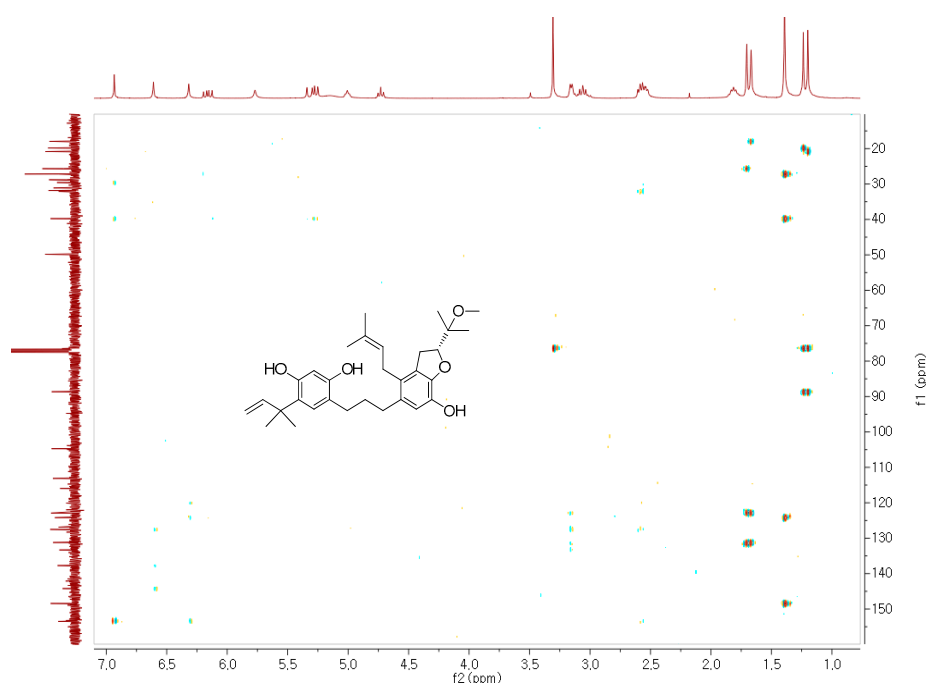


Figure S16. HMBC spectrum of compound 5 recorded in CDCl₃.

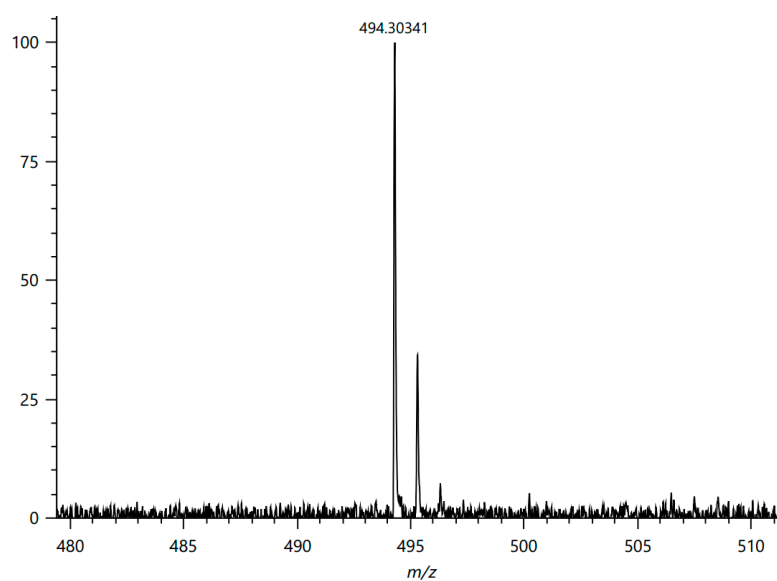


Figure S17. The HRFDMS spectrum of compound 5.

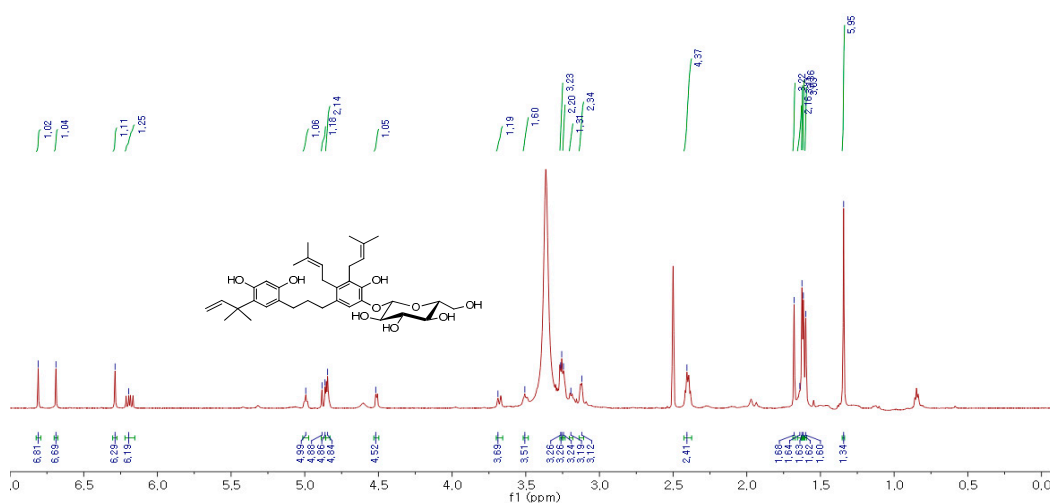


Figure S18. ^1H NMR spectrum of compound 6 recorded at 600 MHz in $\text{DMSO}-d_6$.

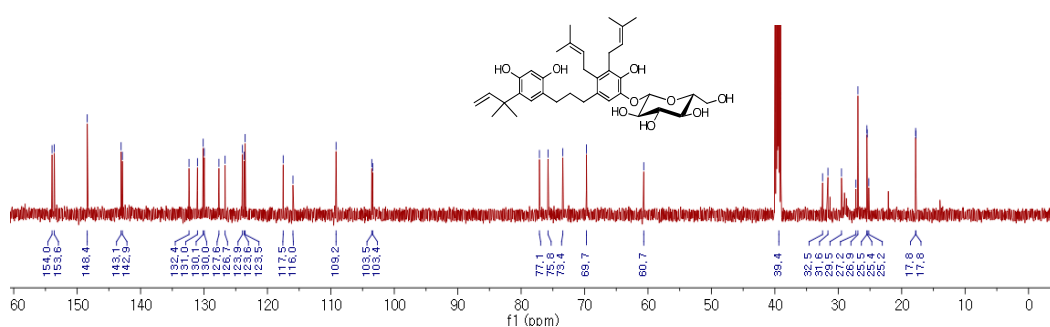


Figure S19. ^{13}C NMR spectrum of compound 6 recorded at 150 MHz in $\text{DMSO}-d_6$.

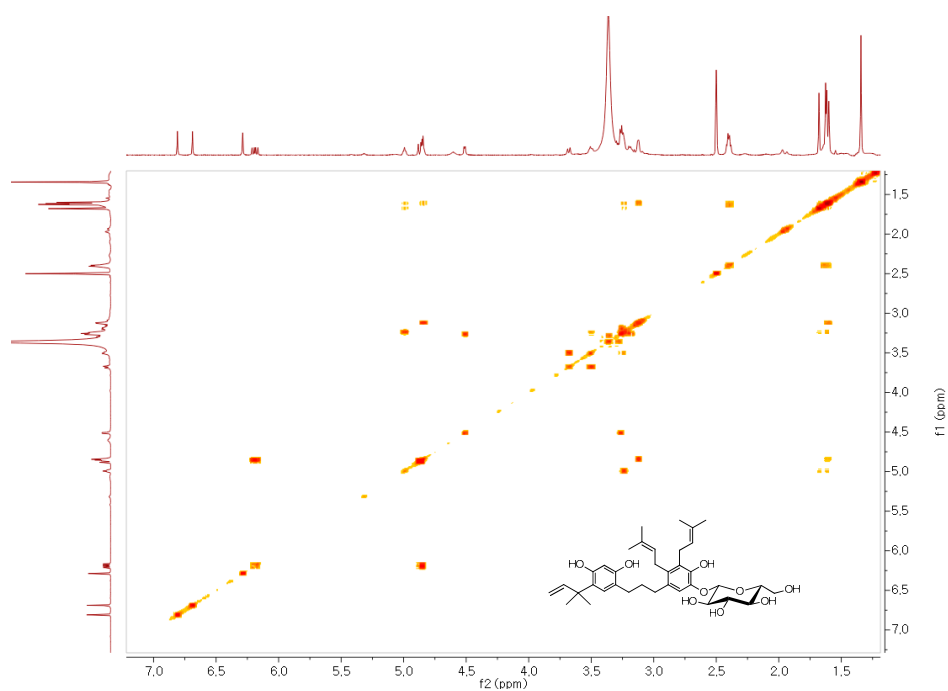


Figure S20. COSY spectrum of compound **6** recorded in DMSO-*d*₆.

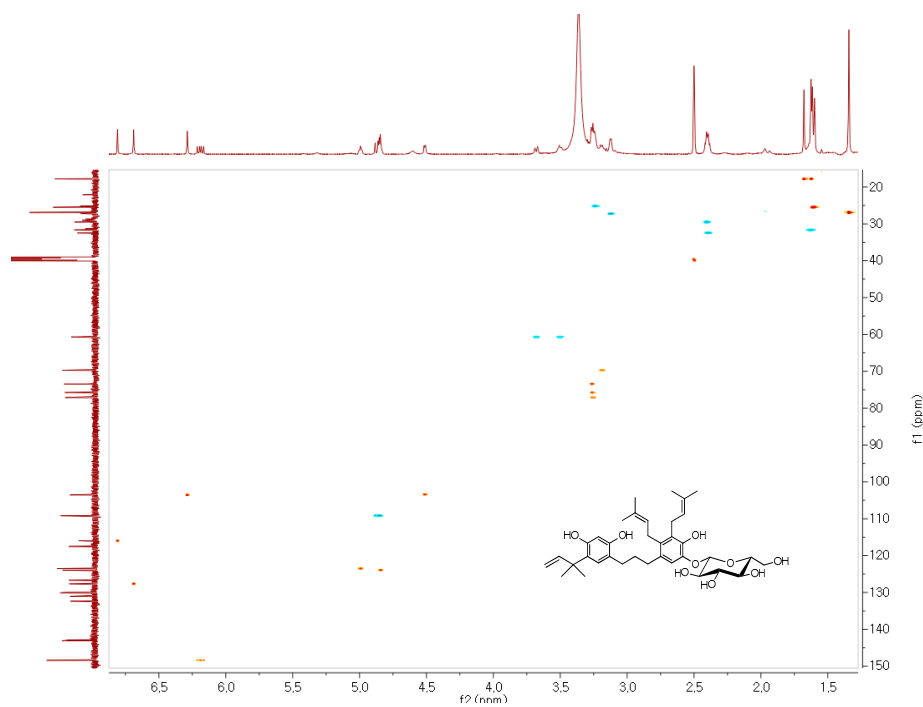


Figure S21. HSQC spectrum of compound **6** recorded in DMSO-*d*₆.

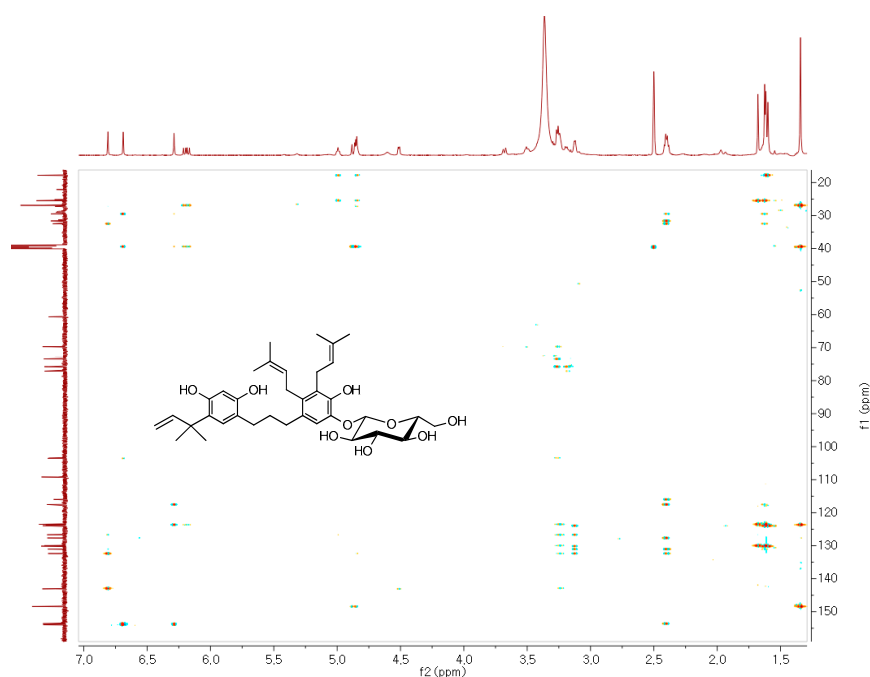


Figure S22. HMBC spectrum of compound 6 recorded in DMSO-*d*₆.

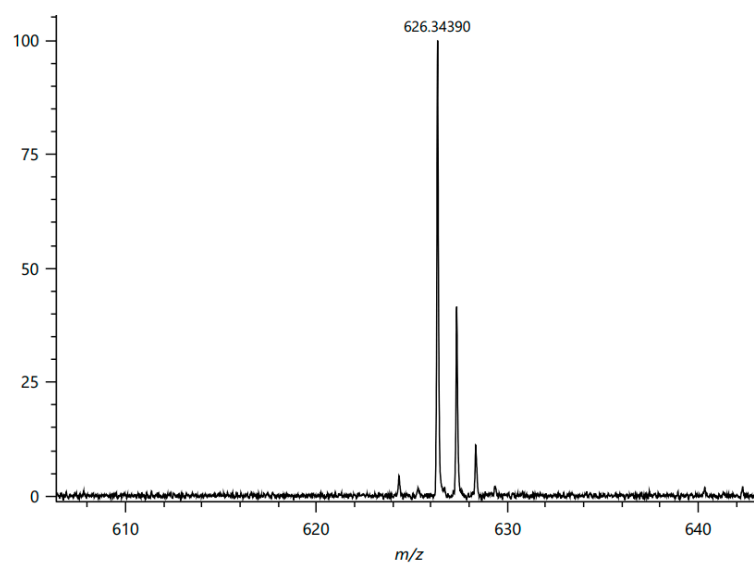


Figure S23. The HRFDMS spectrum of compound 6.

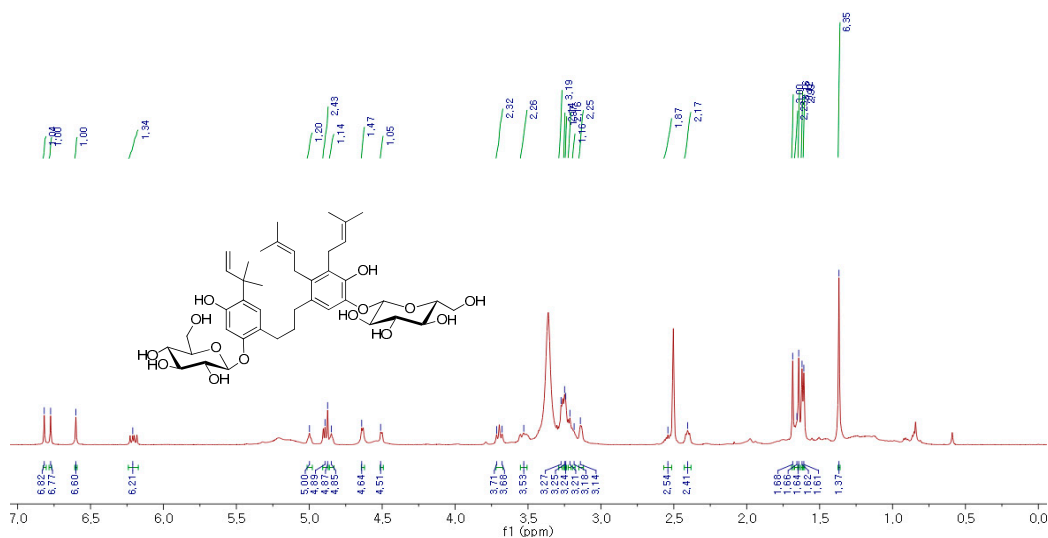


Figure S24. ¹H NMR spectrum of compound 7 recorded at 600 MHz in DMSO-*d*₆.

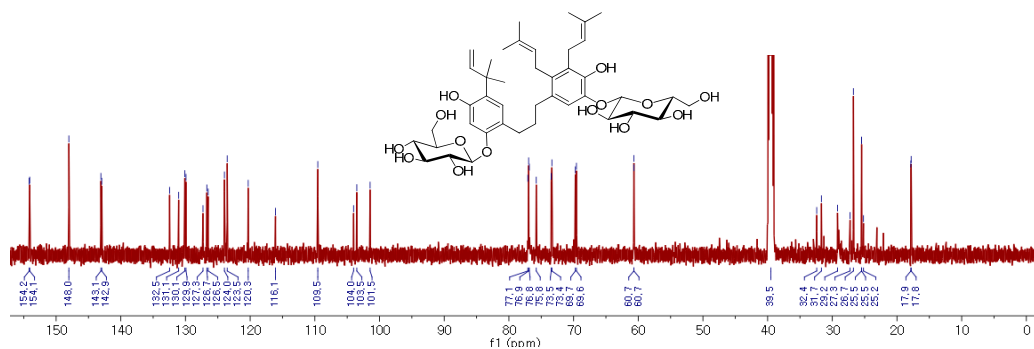


Figure S25. ¹³C NMR spectrum of compound 7 recorded at 150 MHz in DMSO-*d*₆.

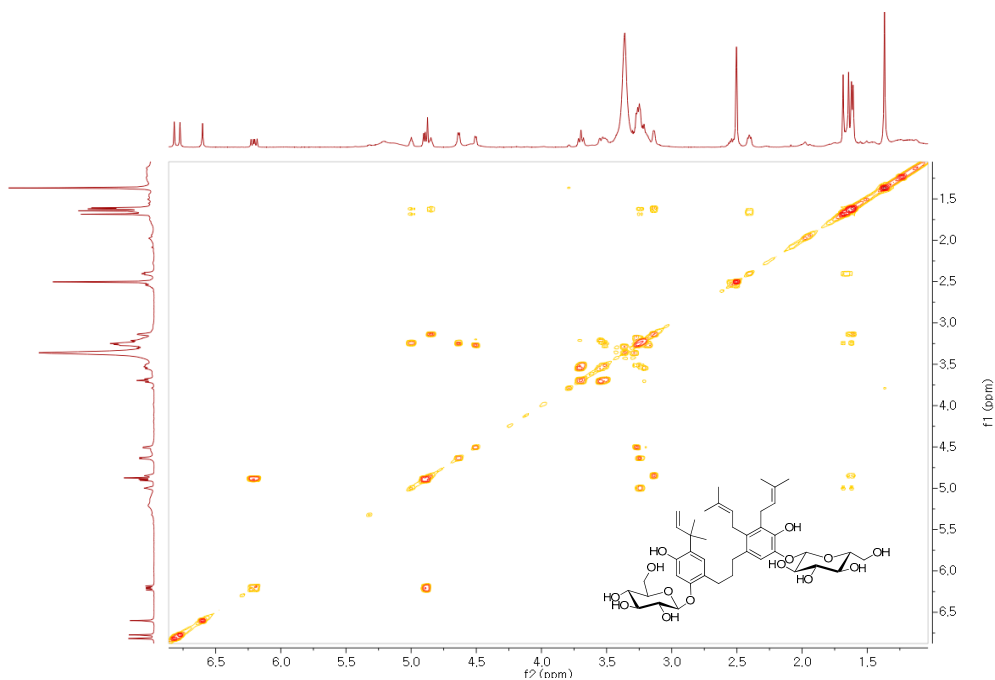


Figure S26. COSY spectrum of compound 7 recorded in DMSO-*d*₆.

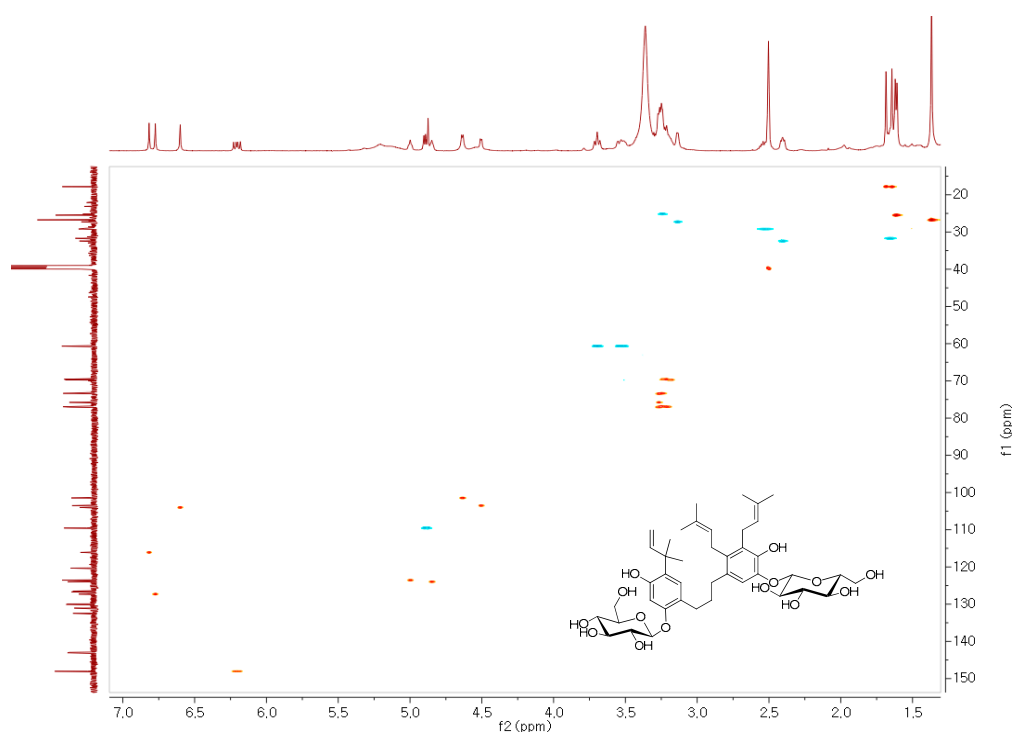


Figure S27. HSQC spectrum of compound 7 recorded in DMSO-*d*₆.

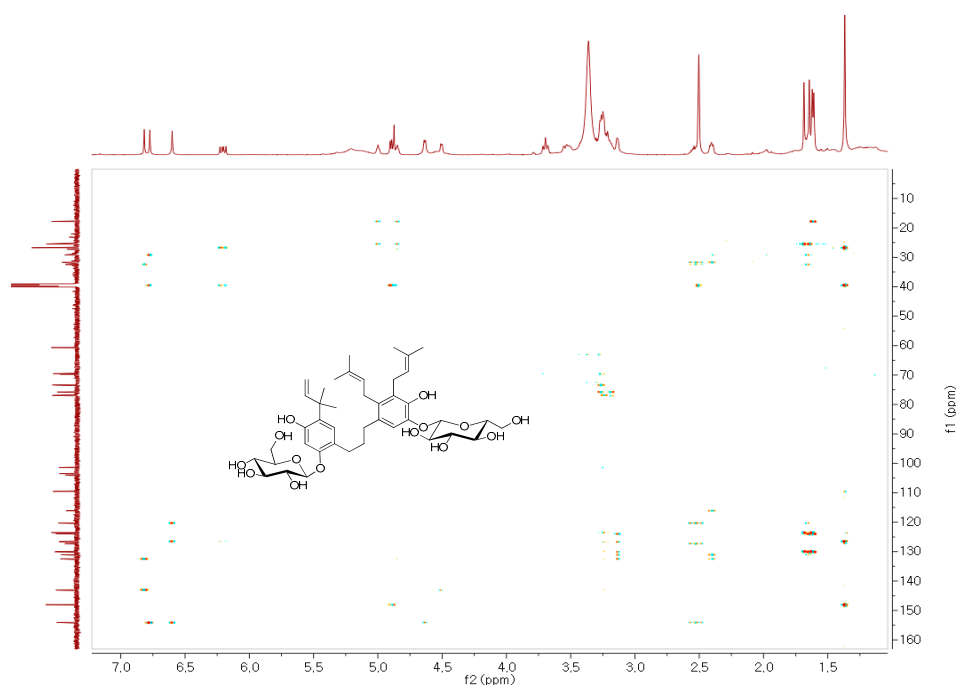


Figure S28. HMBC spectrum of compound 7 recorded in DMSO-*d*₆.

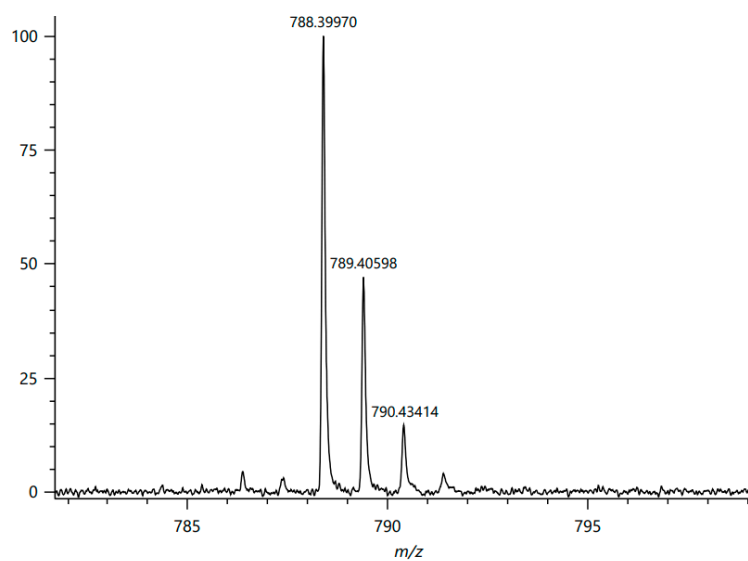


Figure S29. The HRFDMS spectrum of compound 7.

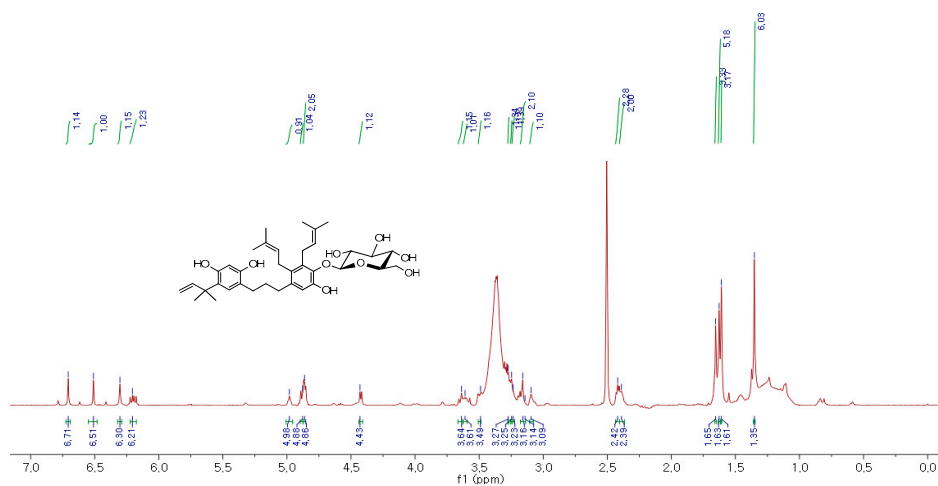


Figure S30. ^1H NMR spectrum of compound 8 recorded at 600 MHz in $\text{DMSO}-d_6$.

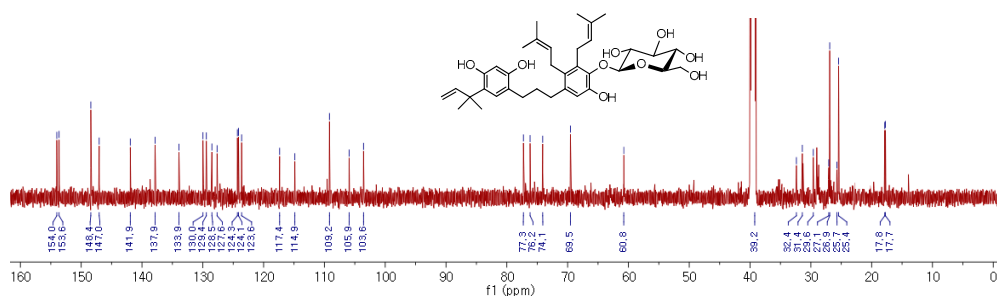


Figure S31. ^{13}C NMR spectrum of compound 8 recorded at 150 MHz in $\text{DMSO}-d_6$.

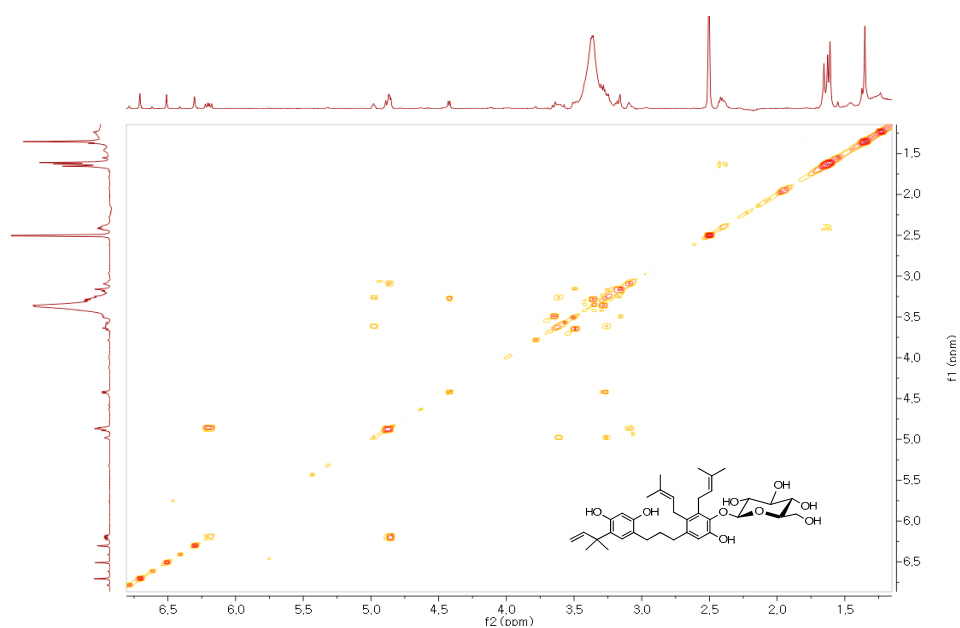


Figure S32. COSY spectrum of compound **8** recorded in DMSO-*d*₆.

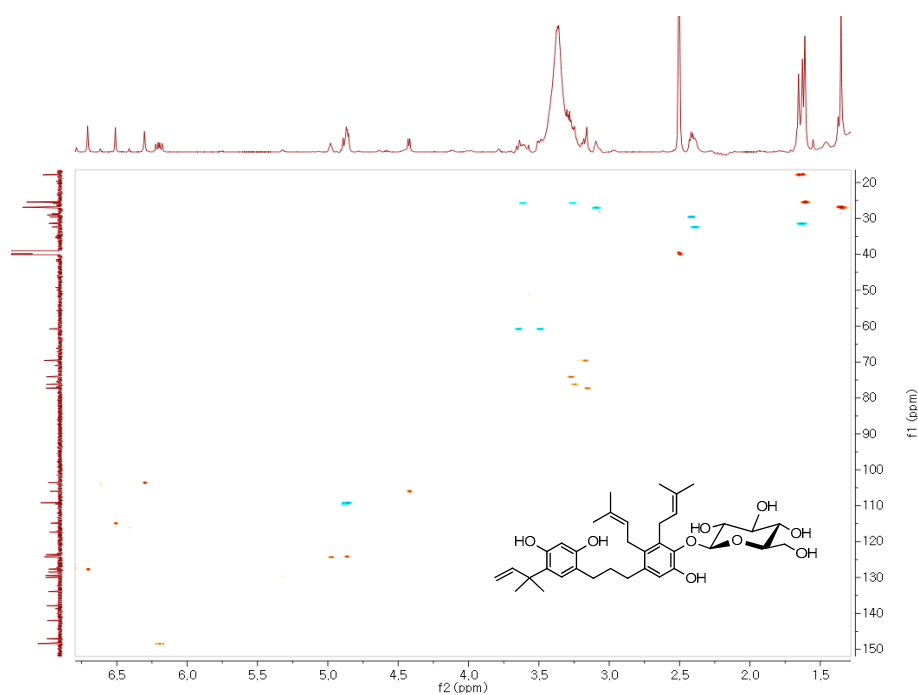


Figure S33. HSQC spectrum of compound **8** recorded in DMSO-*d*₆.

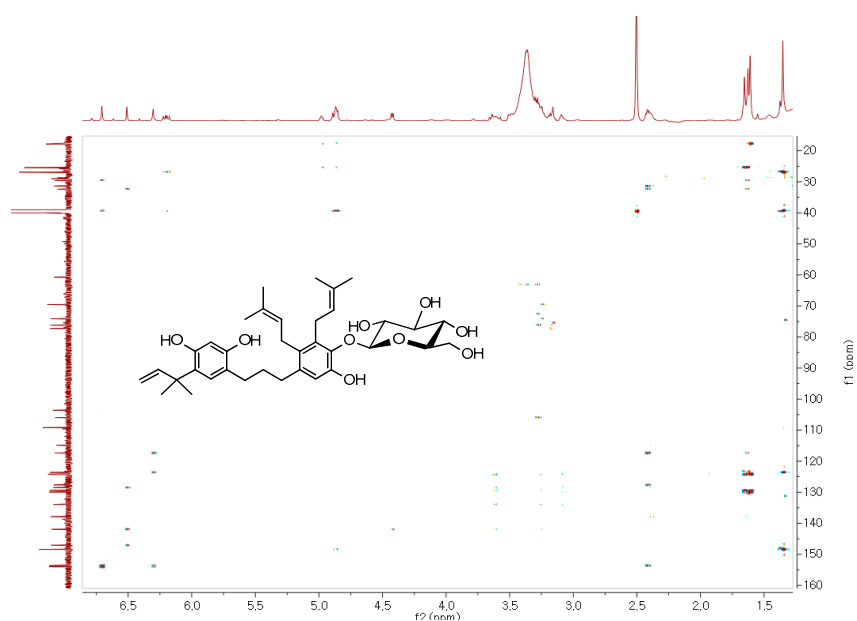


Figure S34. HMBC spectrum of compound 8 recorded in DMSO- d_6 .

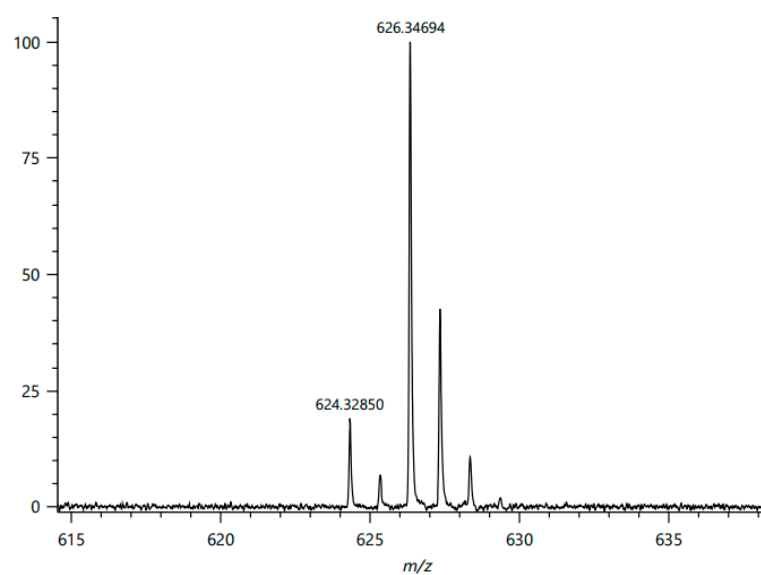


Figure S35. The HRFDMS spectrum of compound 8.

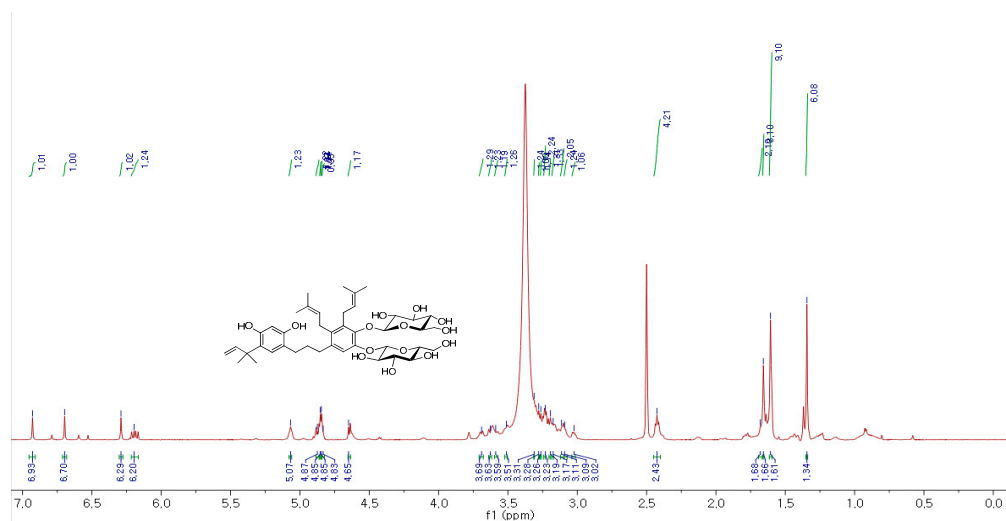
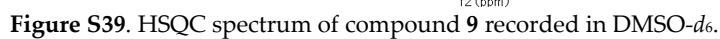
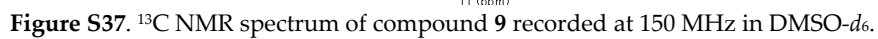


Figure S36. ^1H NMR spectrum of compound 9 recorded at 600 MHz in DMSO- d_6 .



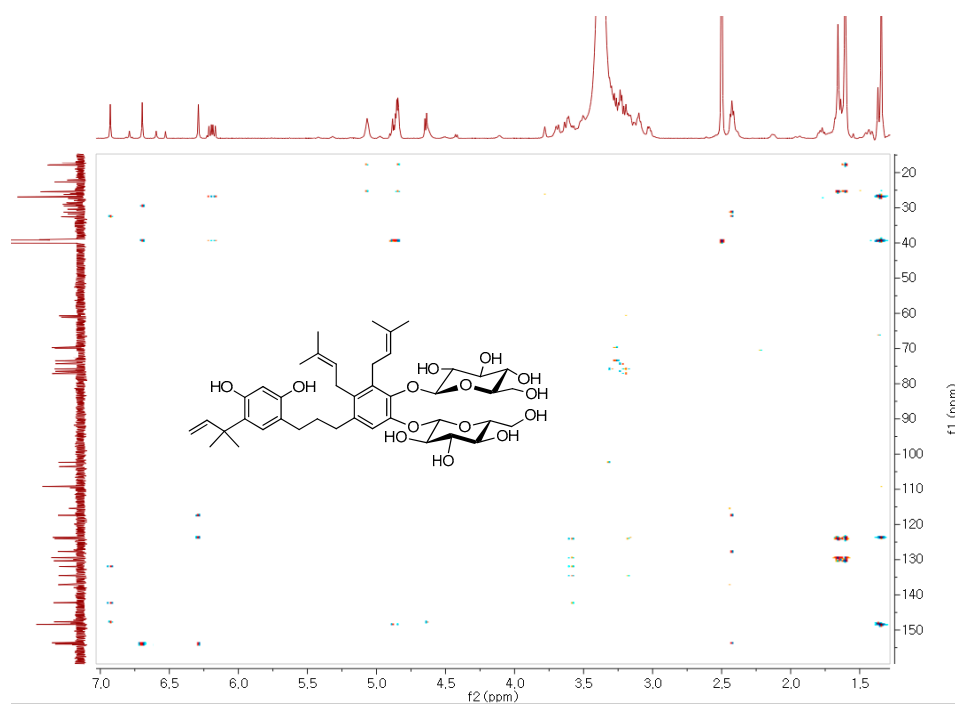


Figure S40. HMBC spectrum of compound **9** recorded in DMSO-*d*₆.

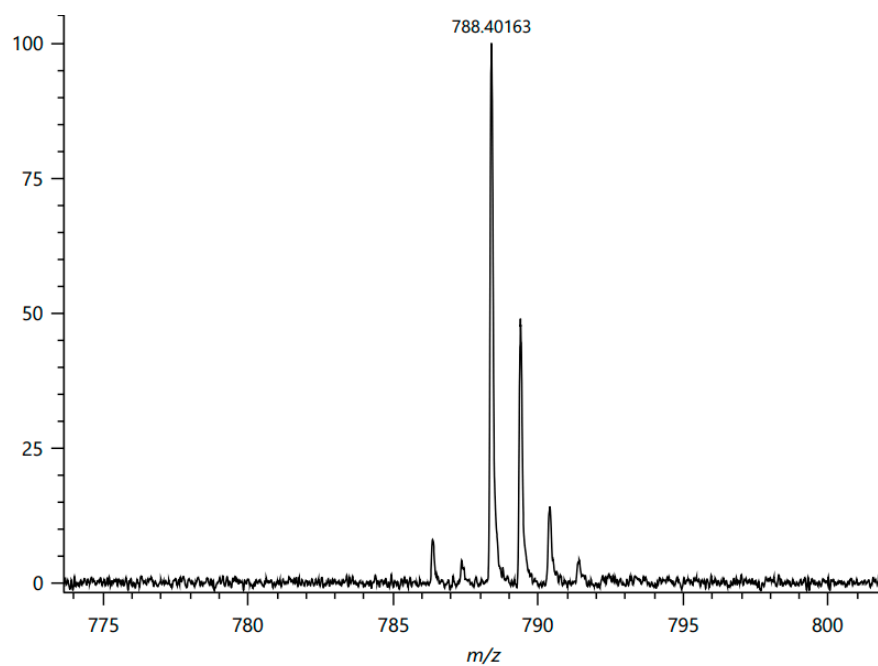
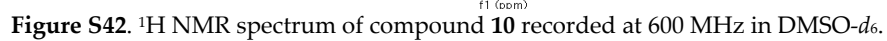


Figure S41. The HRFDMS spectrum of compound **9**.



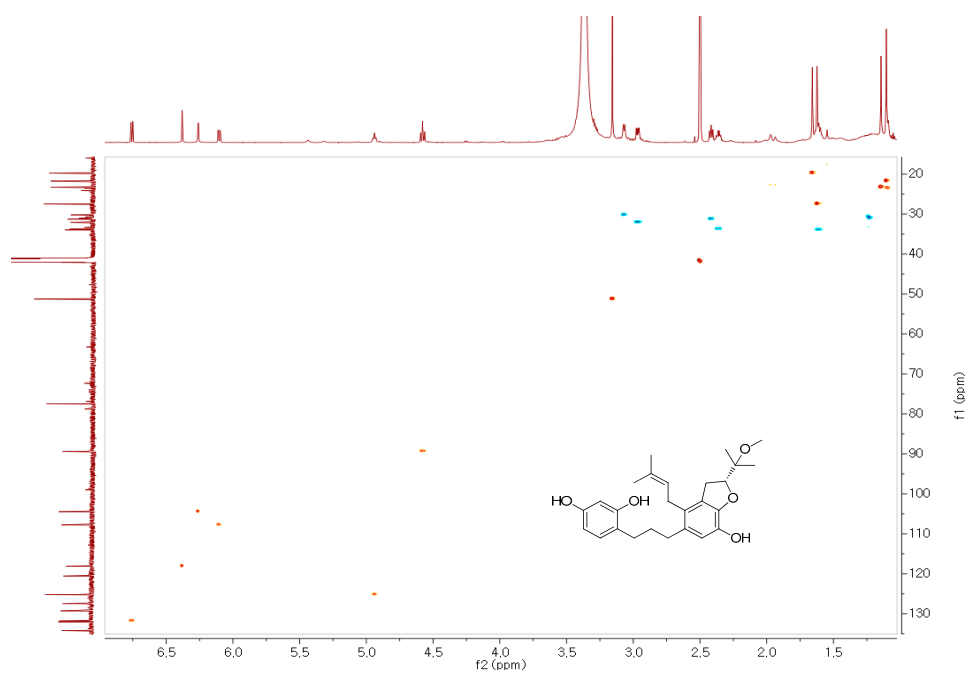


Figure S45. HSQC spectrum of compound **10** recorded in DMSO-*d*₆.

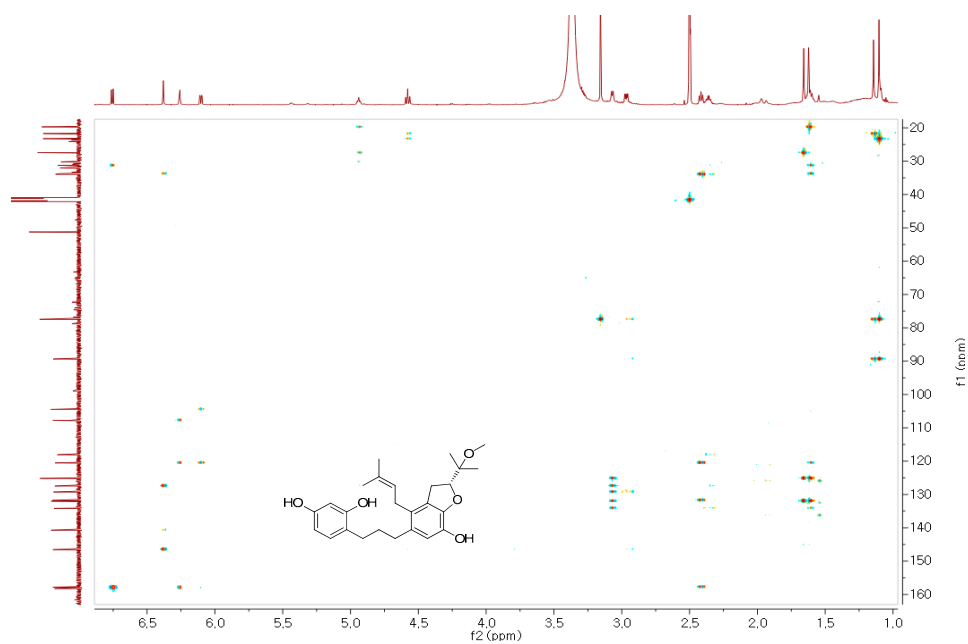


Figure S46. HMBC spectrum of compound **10** recorded in DMSO-*d*₆.

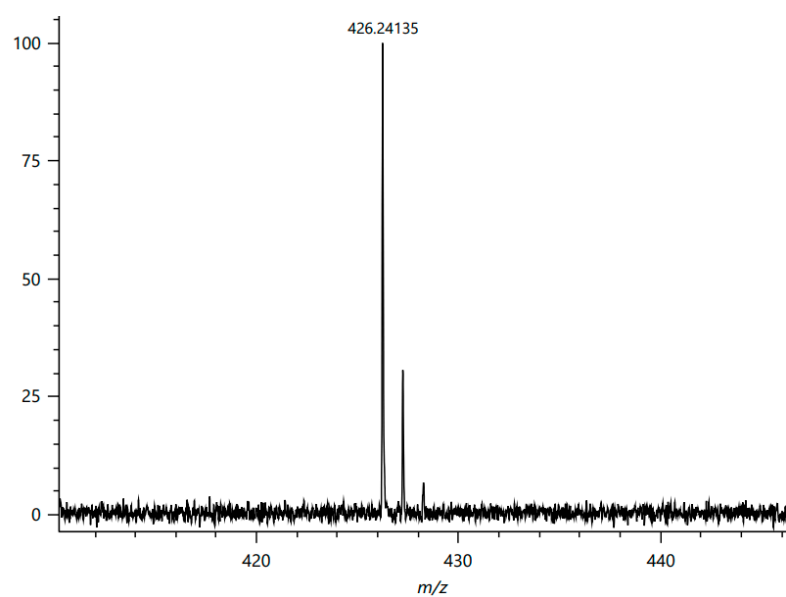


Figure S47. The HRFDMS spectrum of compound 10.

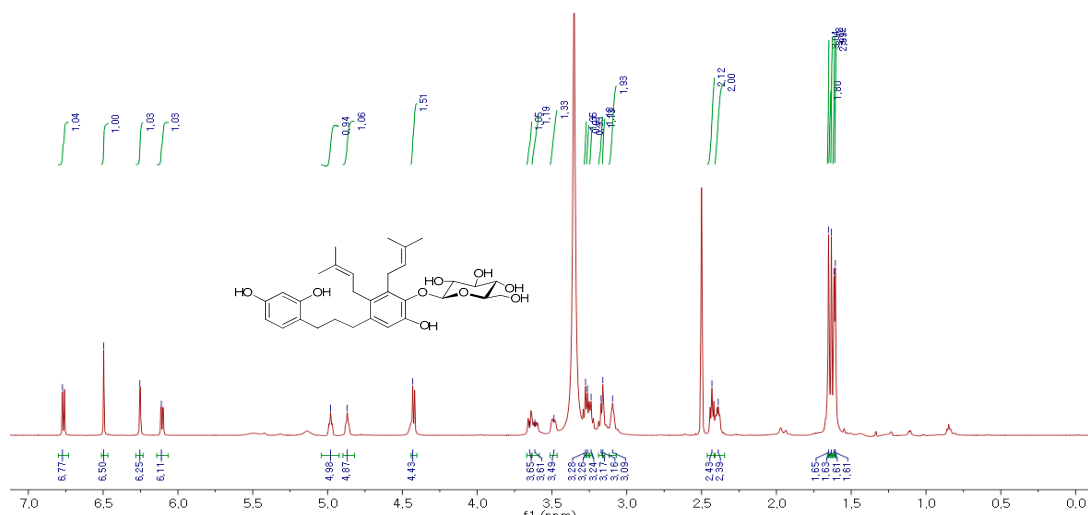


Figure S48. ^1H NMR spectrum of compound 11 recorded at 600 MHz in $\text{DMSO}-d_6$.

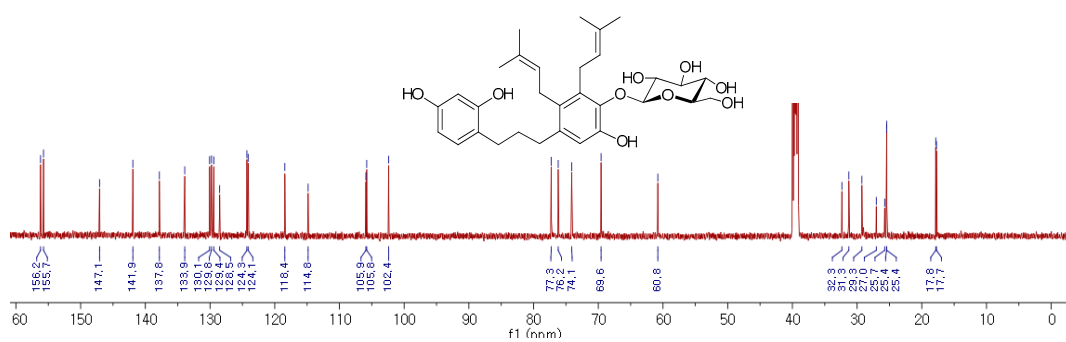


Figure S49. ^{13}C NMR spectrum of compound 11 recorded at 150 MHz in $\text{DMSO}-d_6$.



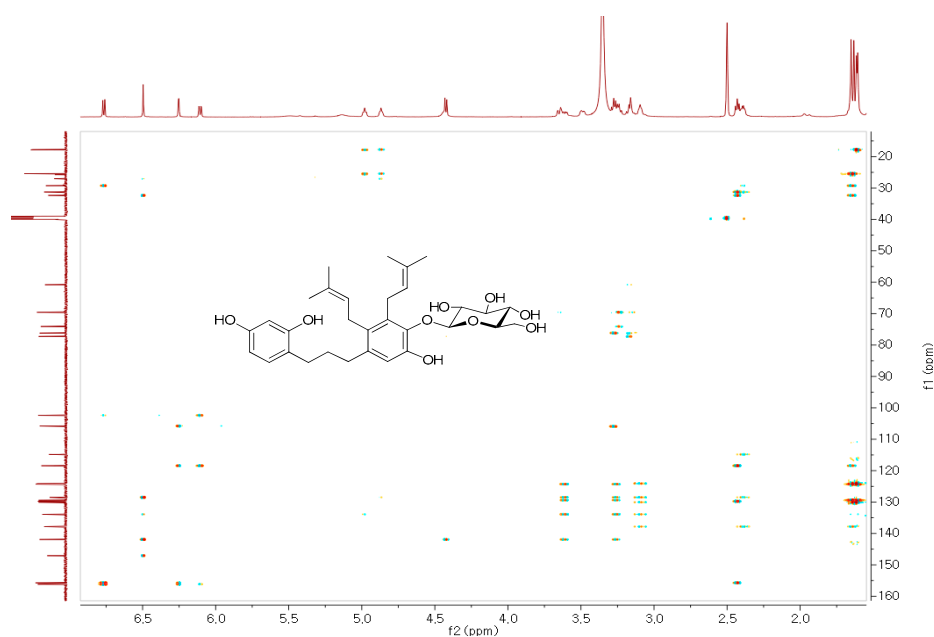


Figure S52. HMBC spectrum of compound 11 recorded in DMSO-*d*₆.

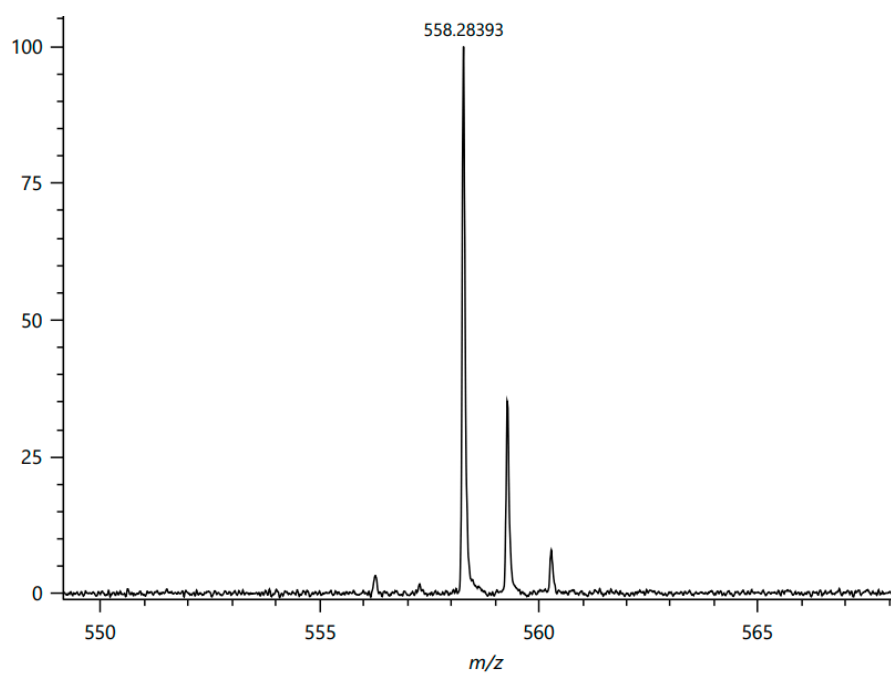


Figure S53. The HRFDMS spectrum of compound 11.