

Diphenyl Ethers from a Marine-Derived *Aspergillus sydowii*

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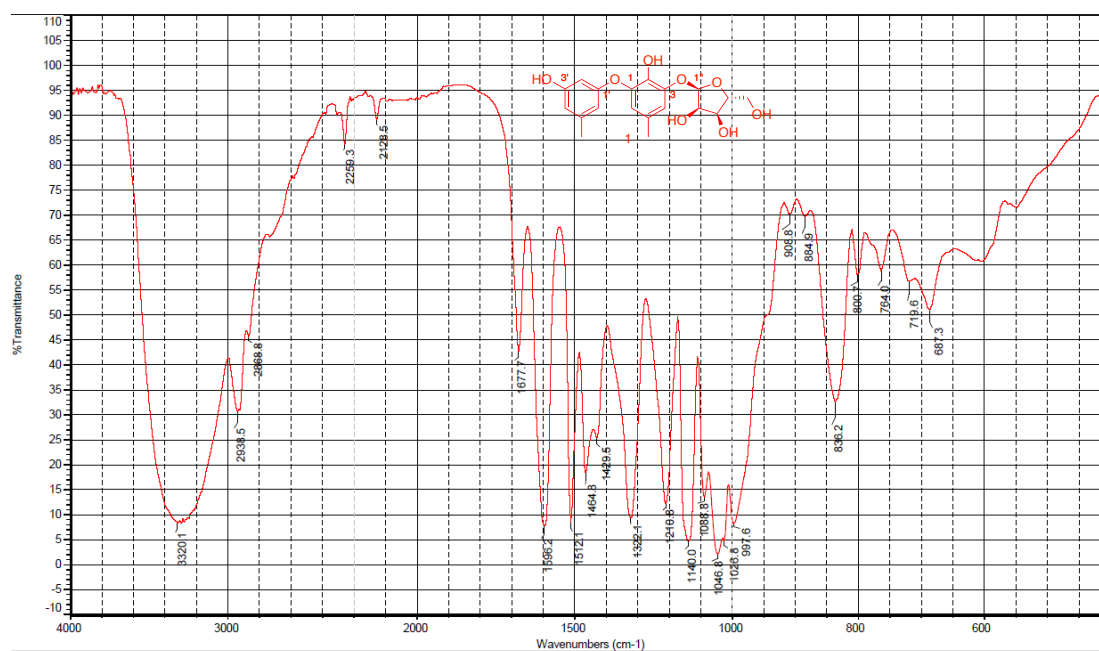


Figure S1. IR spectrum of compound 1

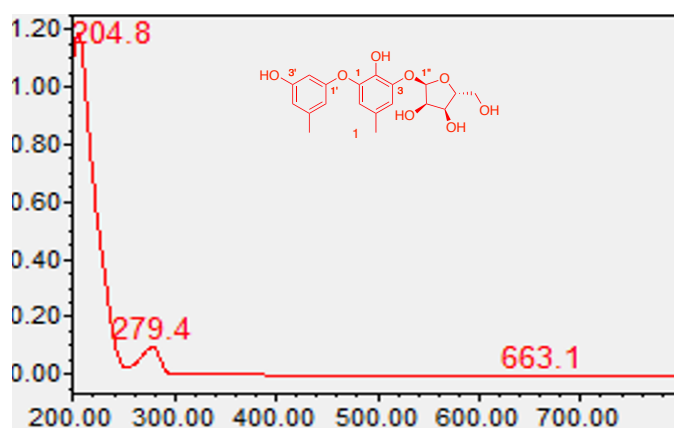


Figure S2. UV spectrum of compound 1

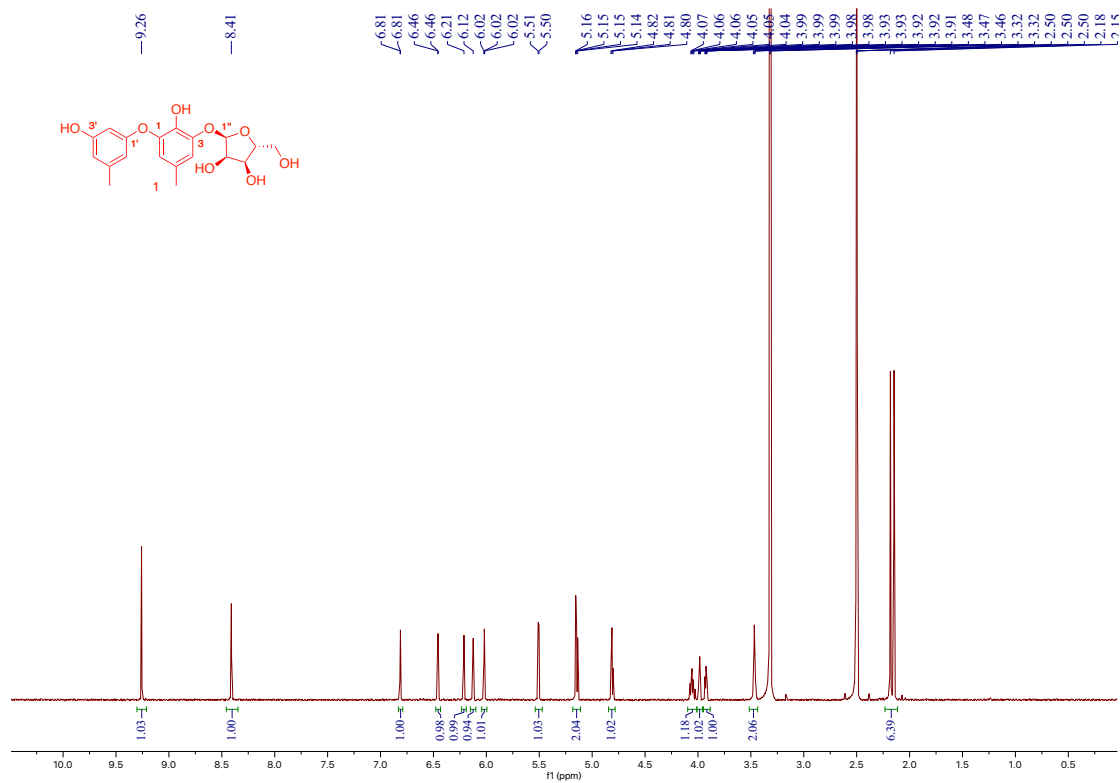


Figure S3. ¹H NMR spectrum of compound **1** in DMSO-*d*₆ (600 MHz)

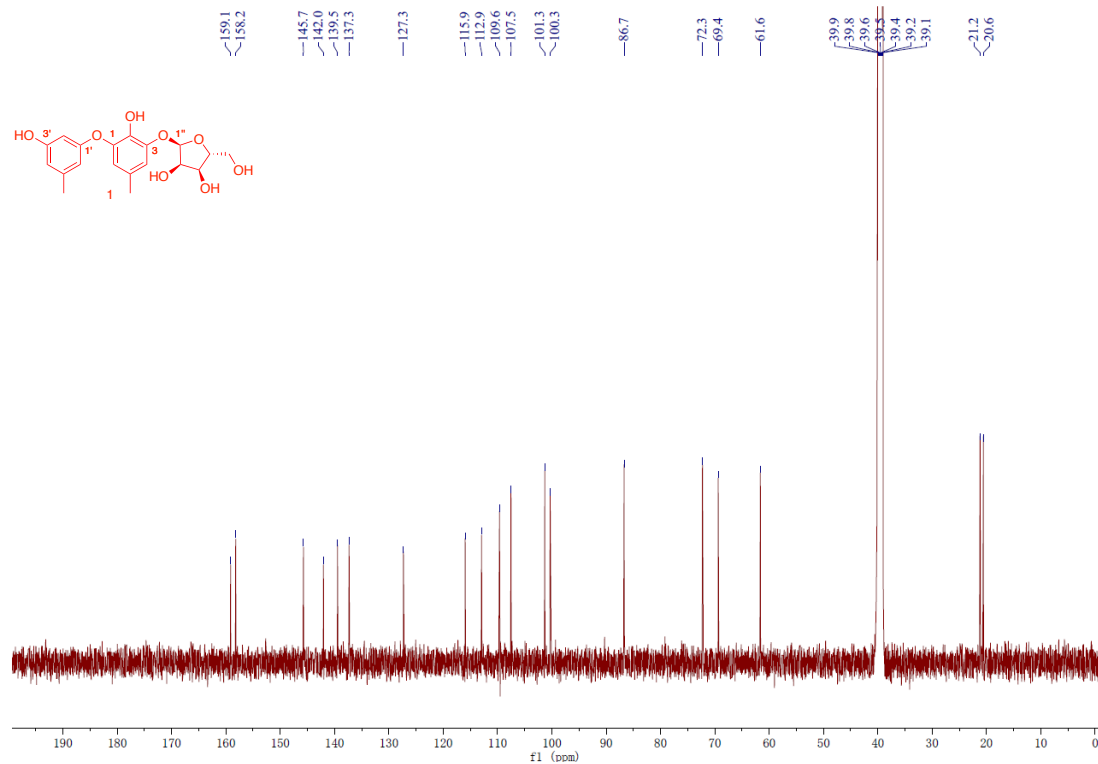
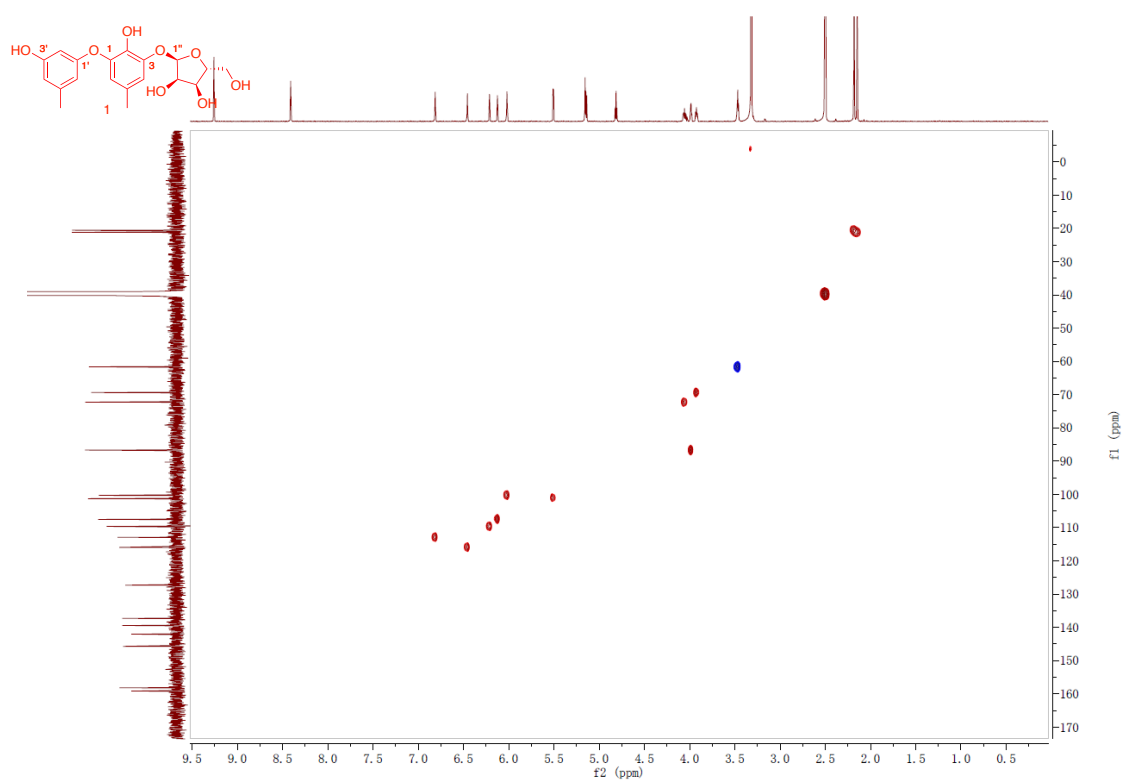
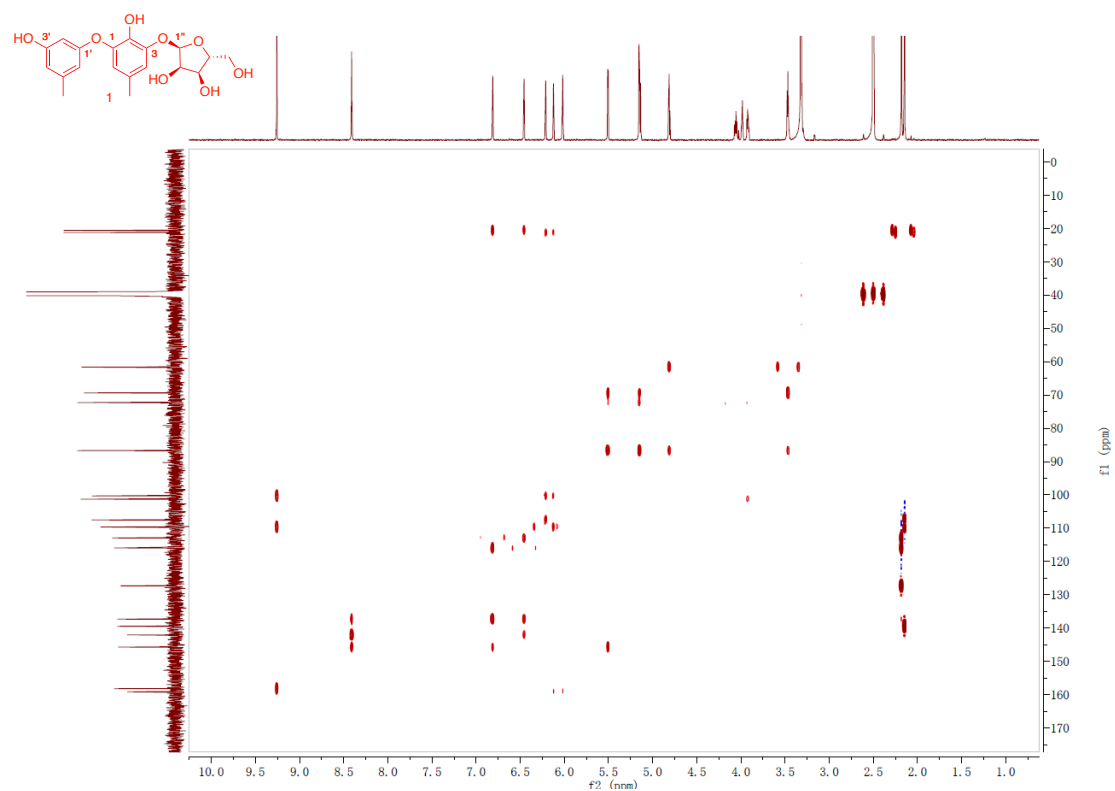


Figure S4. ¹³C NMR spectrum of compound **1** in DMSO-*d*₆ (150 MHz)



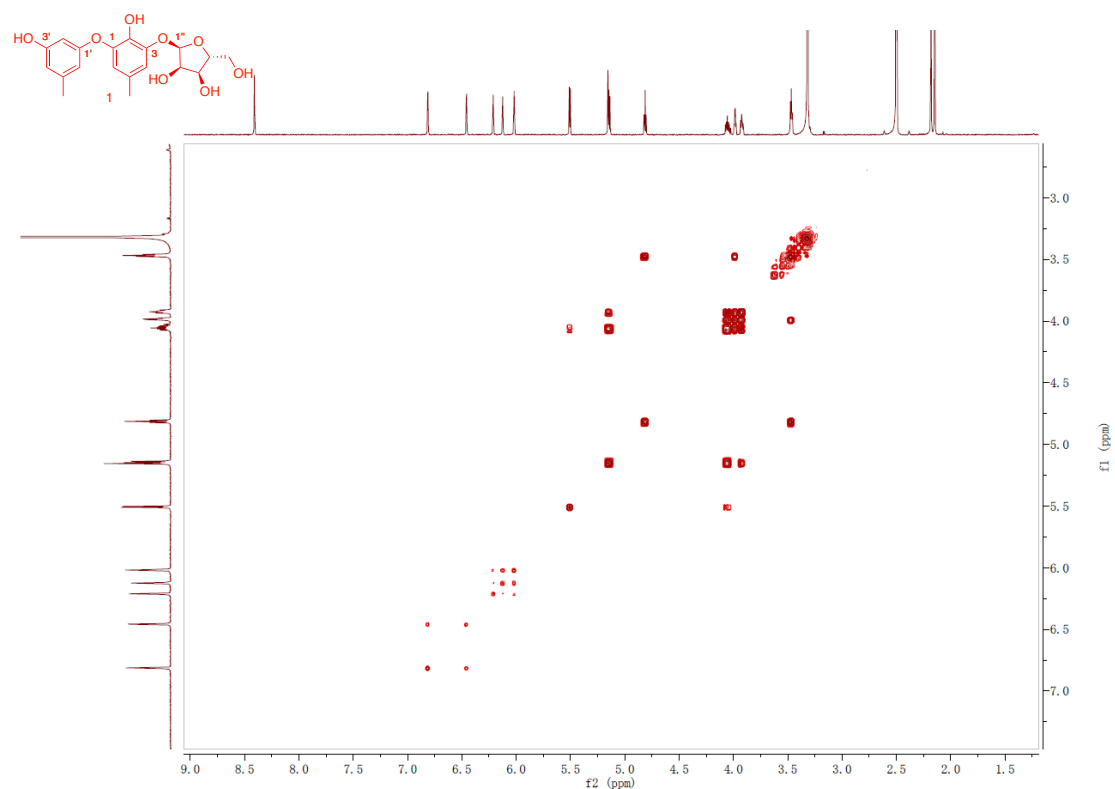


Figure S7. COSY spectrum of compound **1** in DMSO-*d*₆

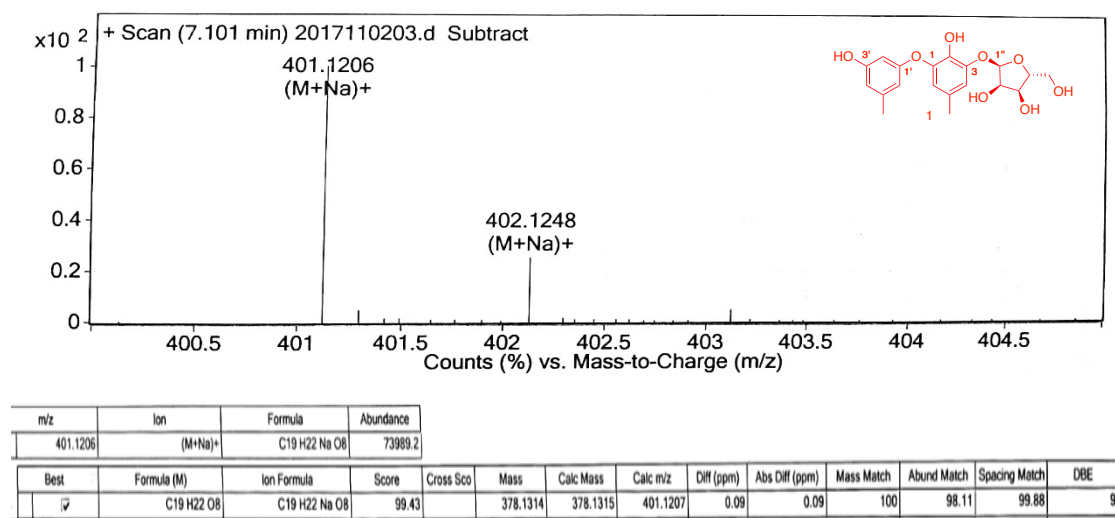


Figure S8. HRESIMS of compound **1**

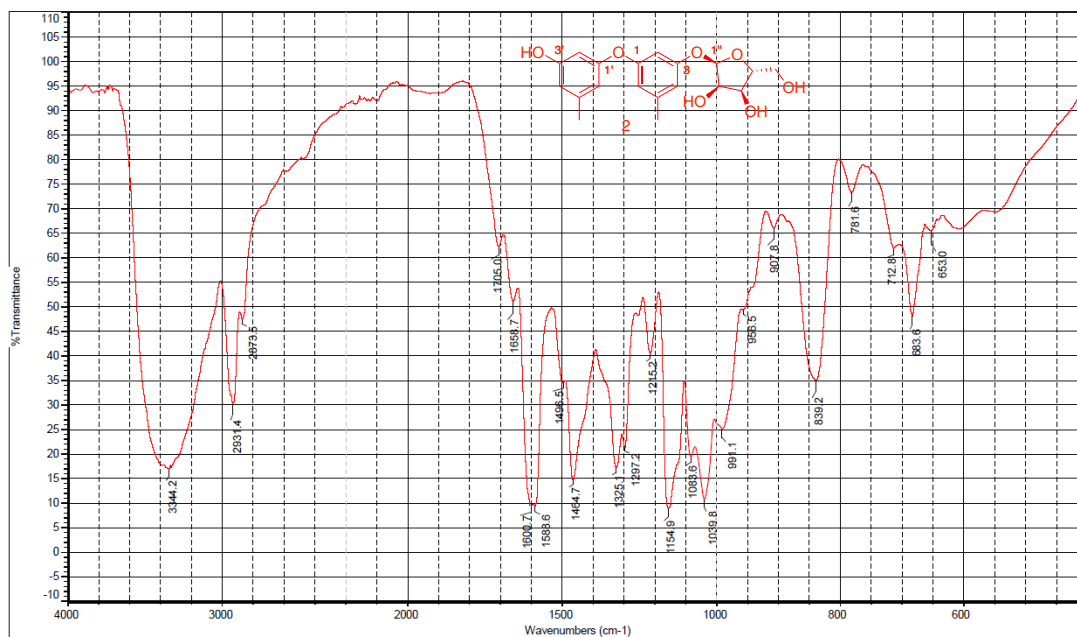


Figure S9. IR spectrum of compound 2

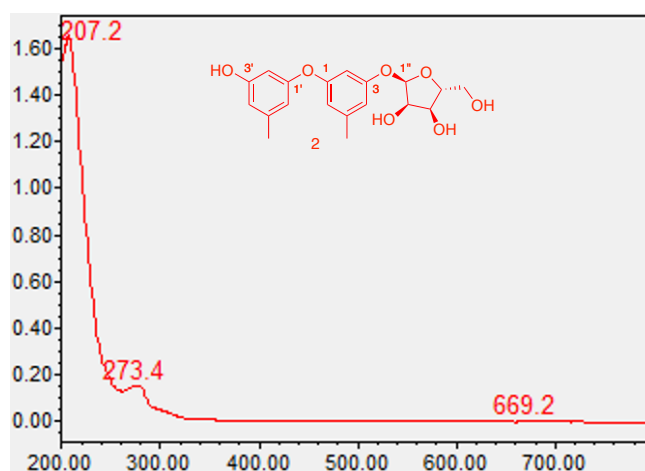


Figure S10. UV spectrum of compound 2

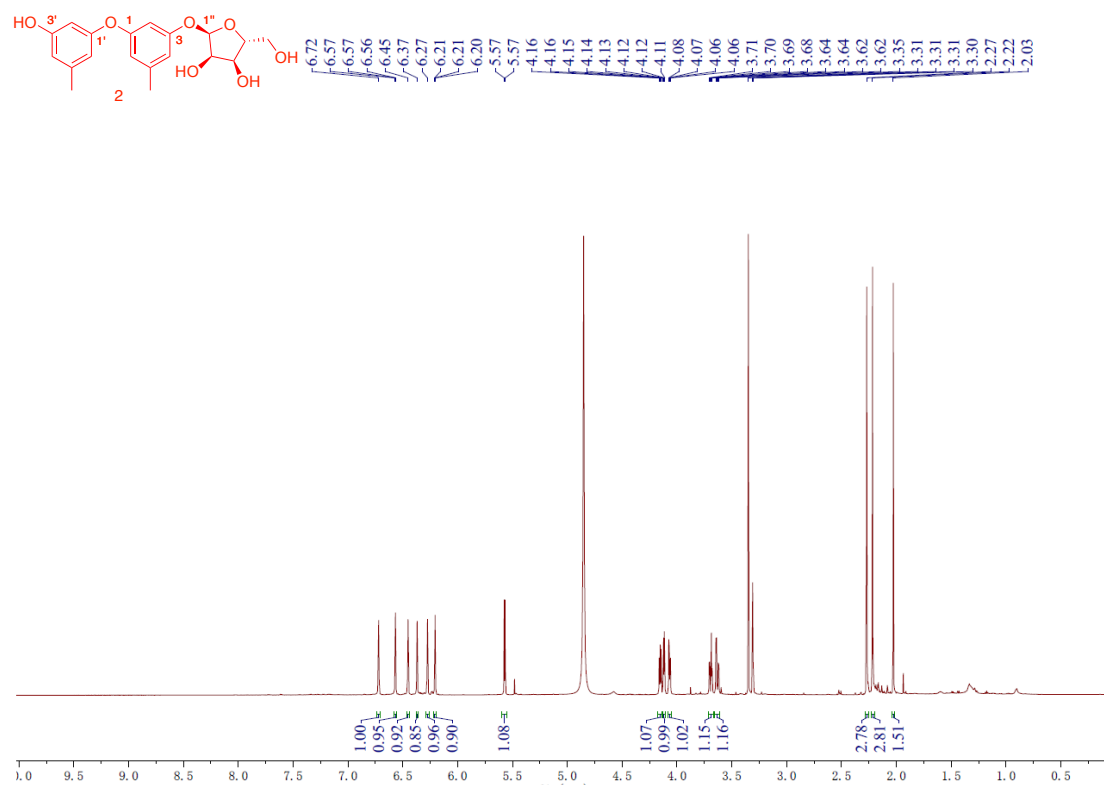


Figure S11. ¹H NMR spectrum of compound 2 in CD₃OD (600 MHz)

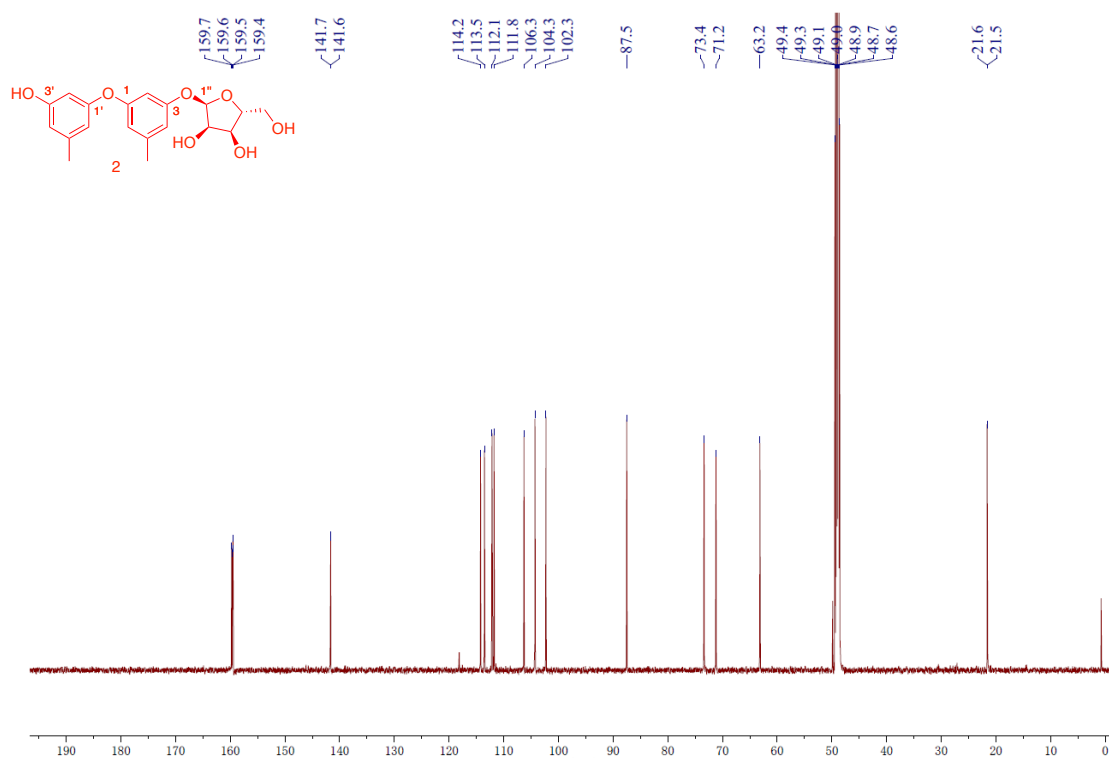


Figure S12. ¹³C NMR spectrum of compound 2 in CD₃OD (150 MHz)

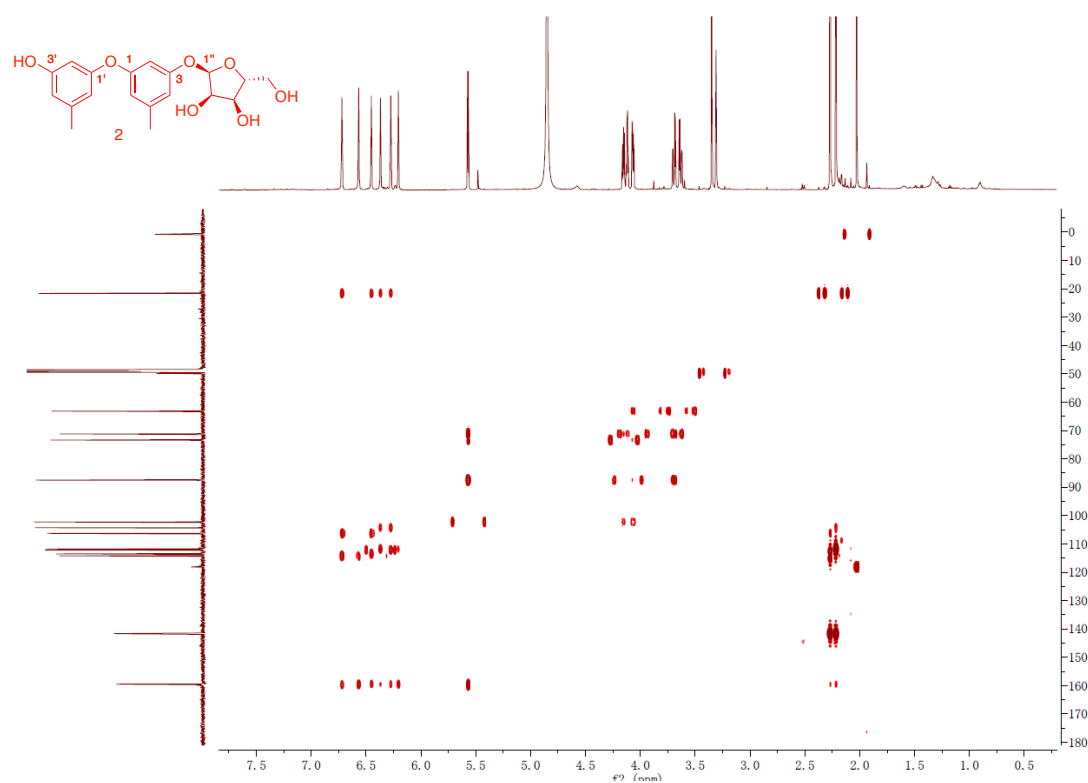


Figure S13. HMBC spectrum of compound **2** in CD₃OD

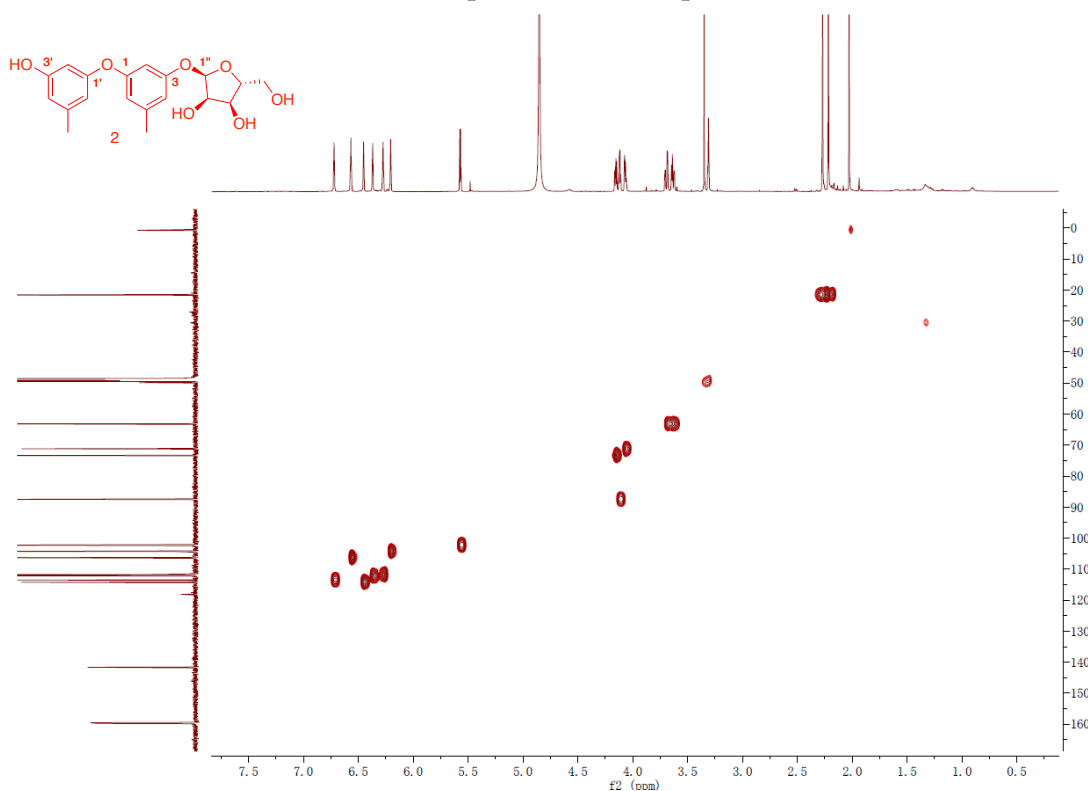


Figure S14. HSQC spectrum of compound **2** in CD₃OD

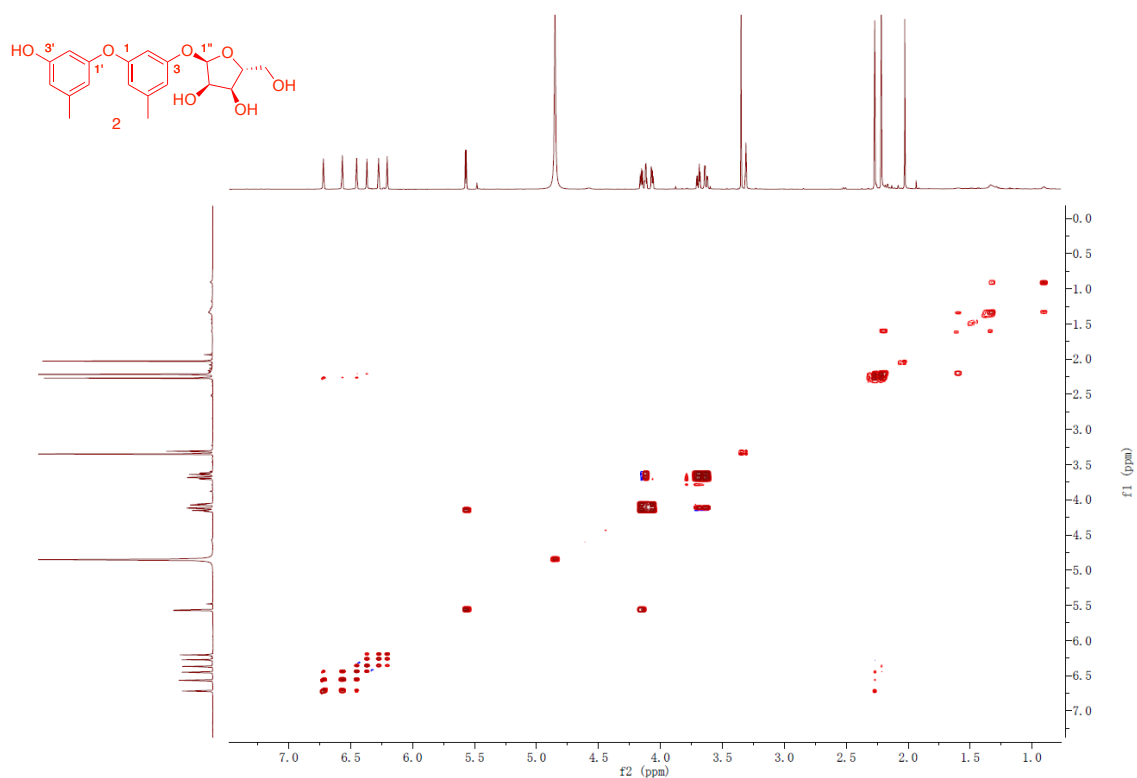
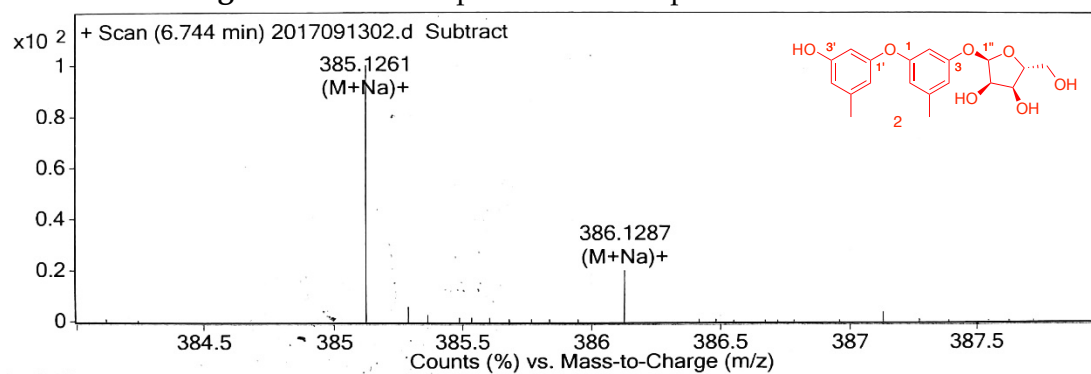


Figure S15. COSY spectrum of compound **2** in CD₃OD



m/z	Ion	Formula	Abundance
385.1261	(M+Na)+	C ₁₉ H ₂₂ NaO ₇	580394.8

Best	Formula (M)	Ion Formula	Score	Cross Sco	Mass	Calc Mass	Calc m/z	Diff (ppm)	Abs Diff (ppm)	Mass Match	Abund Match	Spacing Match	DBE
✓	C ₁₉ H ₂₂ O ₇	C ₁₉ H ₂₂ NaO ₇	99.9		362.1369	362.1366	385.1258	-0.85	0.85	99.98	99.8	99.85	

Figure S8. HRESIMS of compound **2**

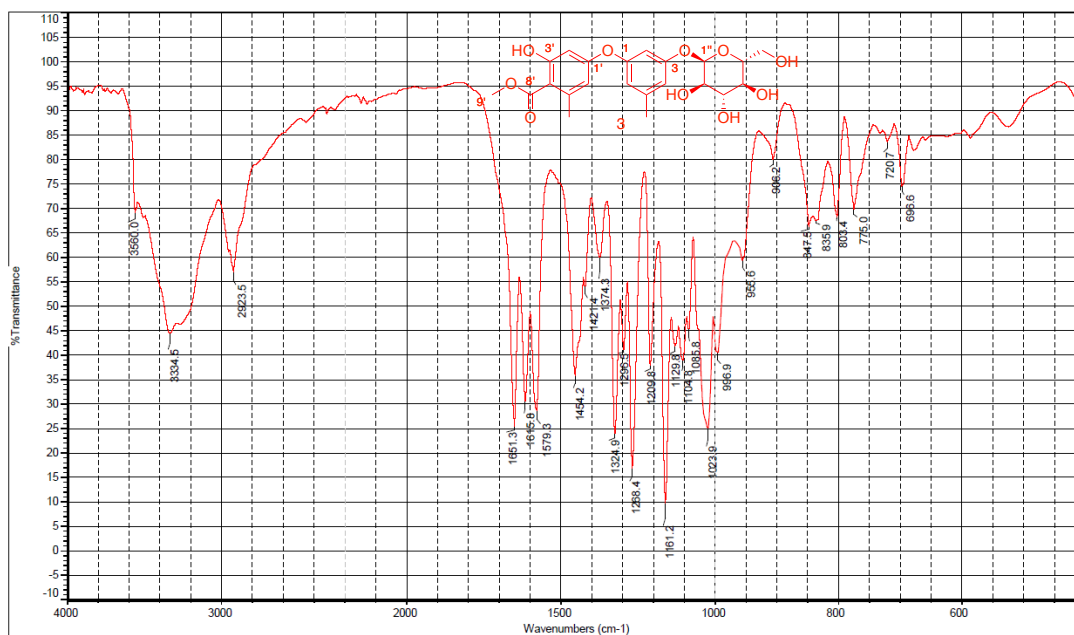


Figure S17. IR spectrum of compound 3

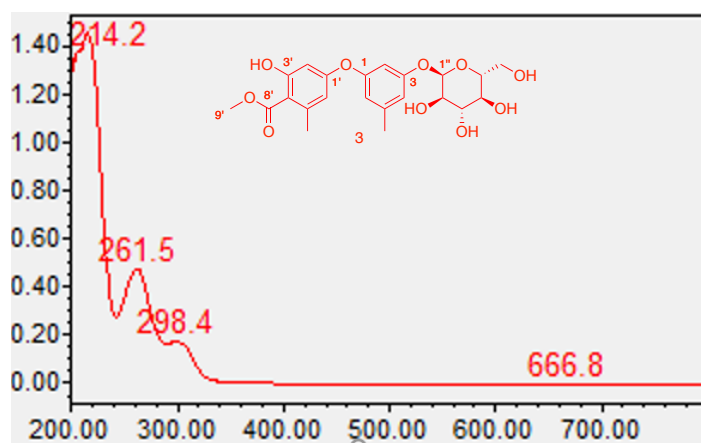


Figure S18. UV spectrum of compound 3

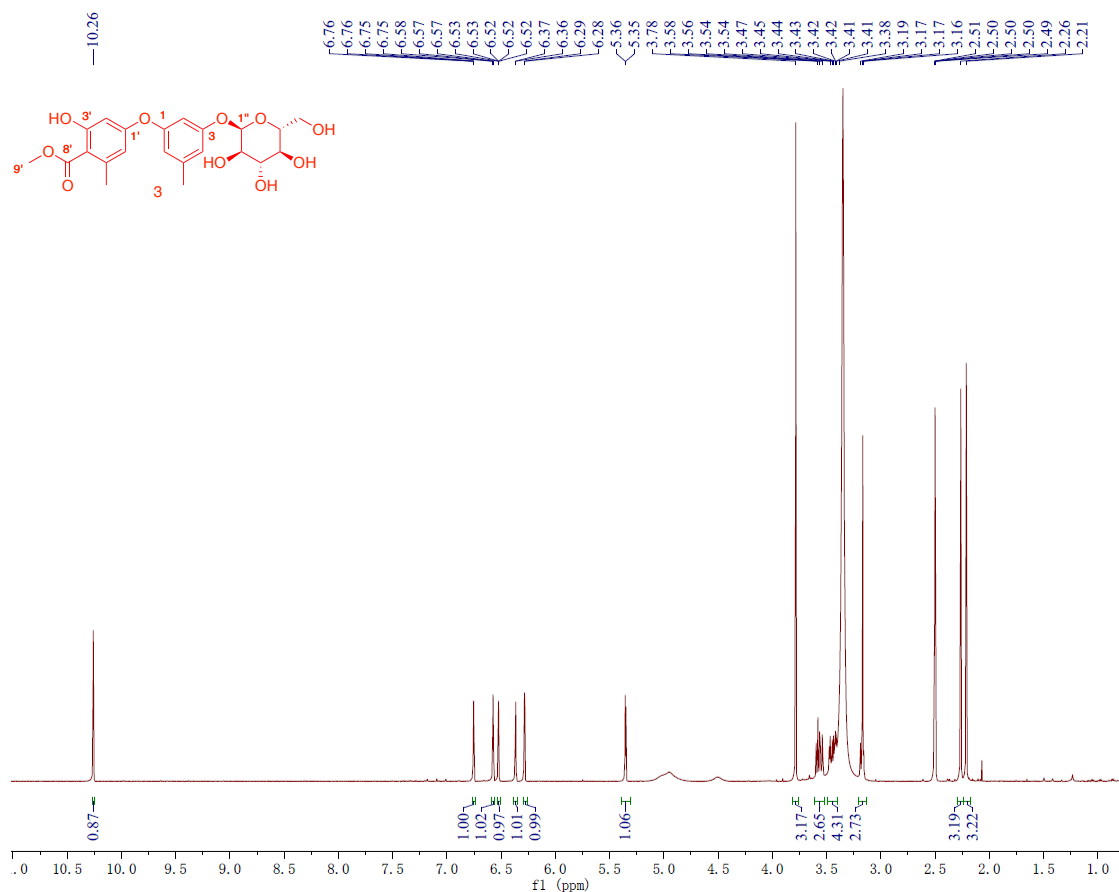


Figure S19. ¹H NMR spectrum of compound **3** in DMSO-*d*₆ (600 MHz)

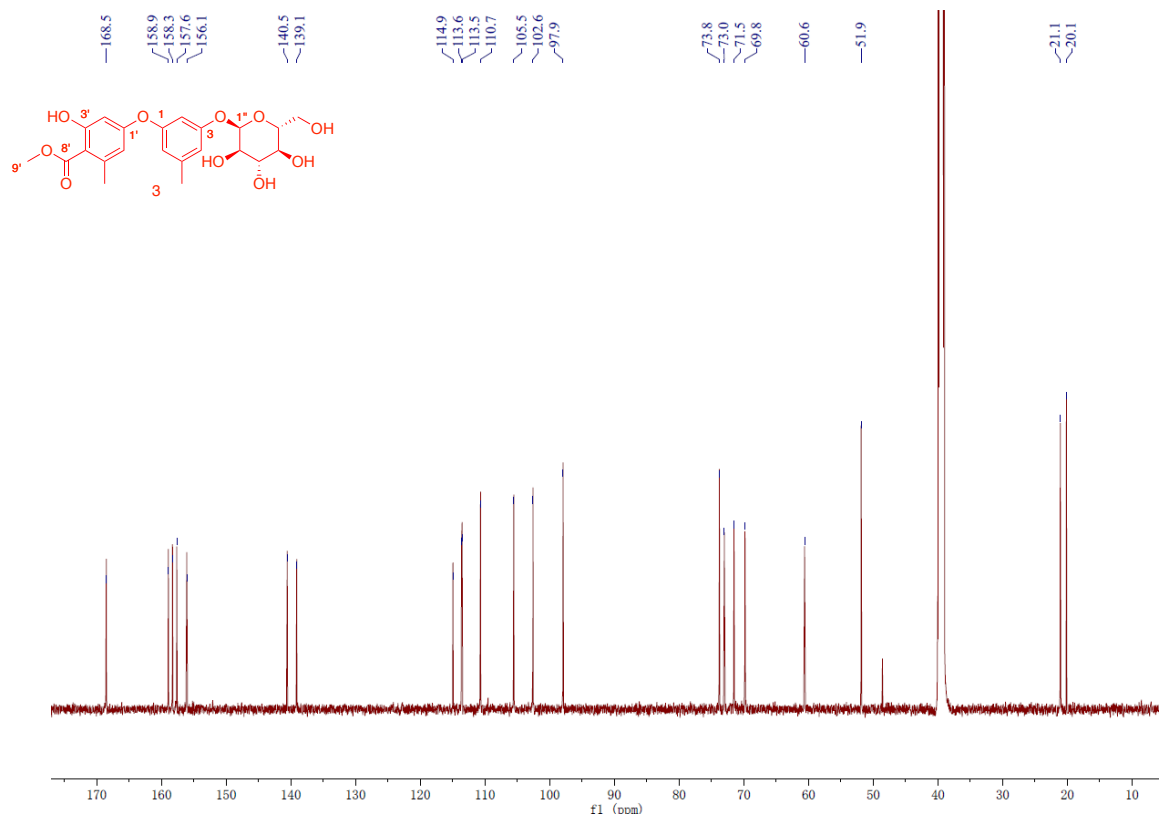


Figure S20. ¹³C NMR spectrum of compound **3** in DMSO-*d*₆ (150 MHz)

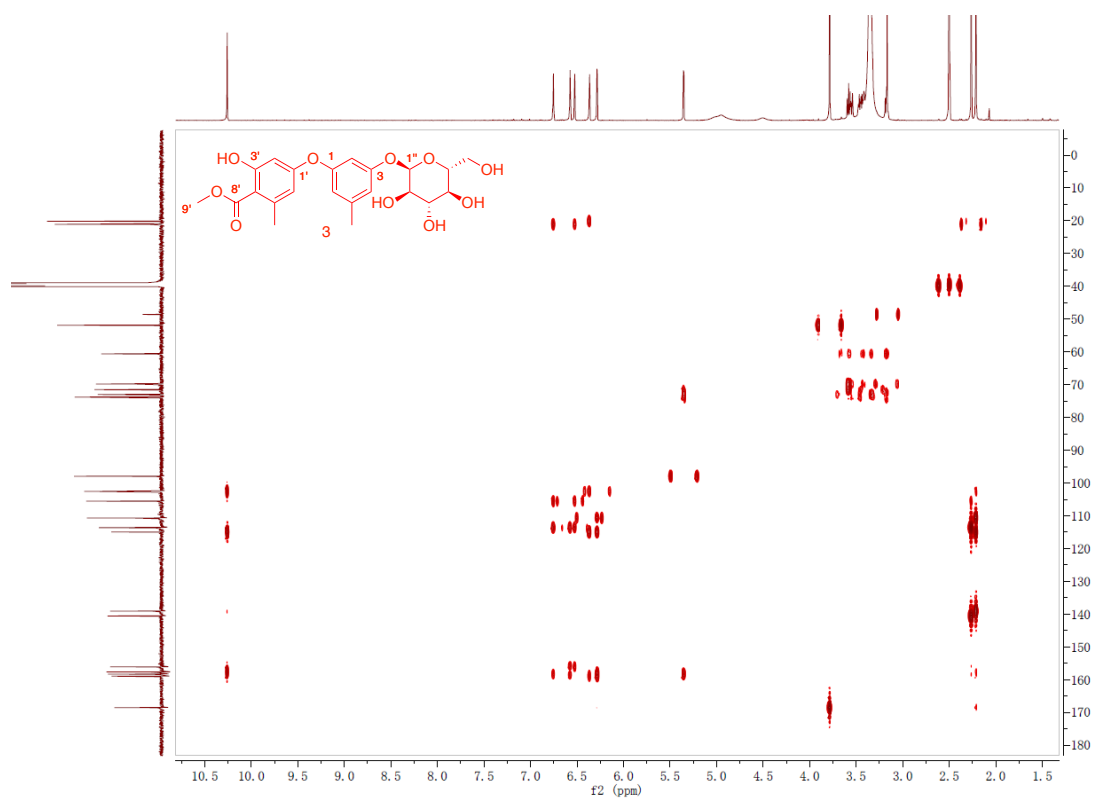


Figure S21. HMBC spectrum of compound **3** in DMSO-*d*₆

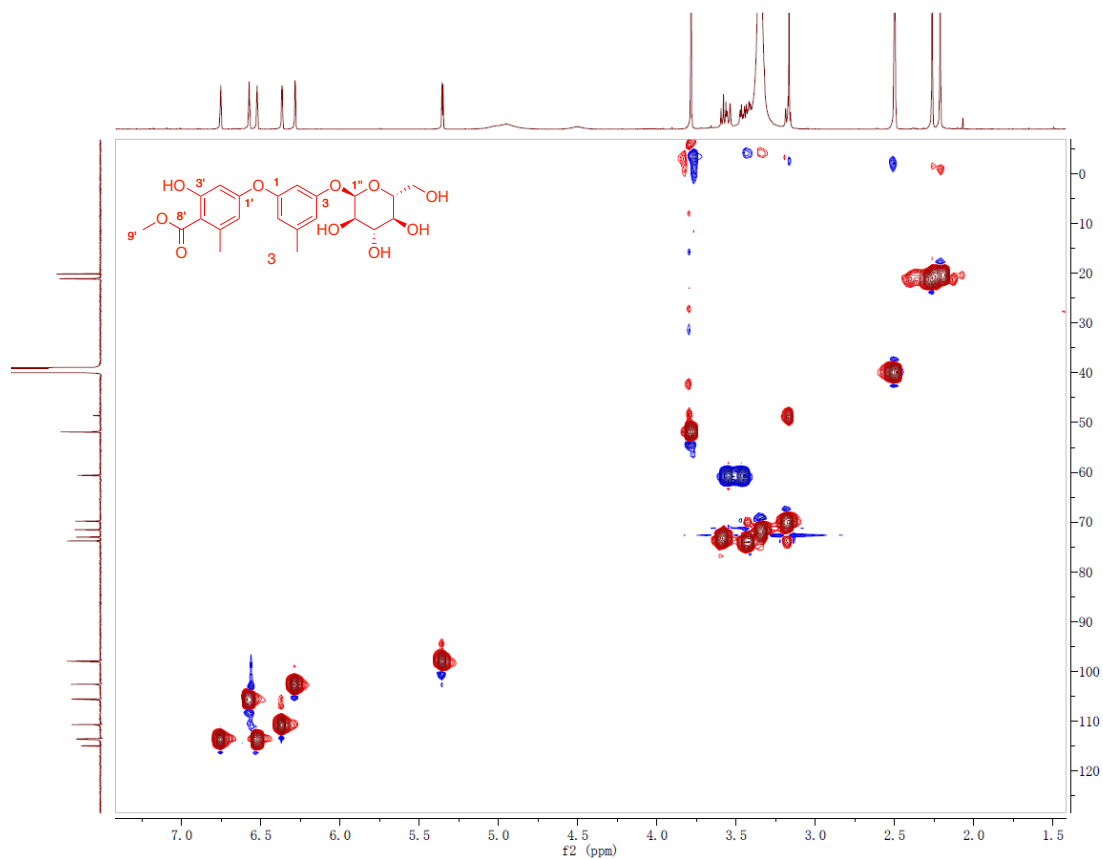


Figure S22. HSQC spectrum of compound **3** in DMSO-*d*₆

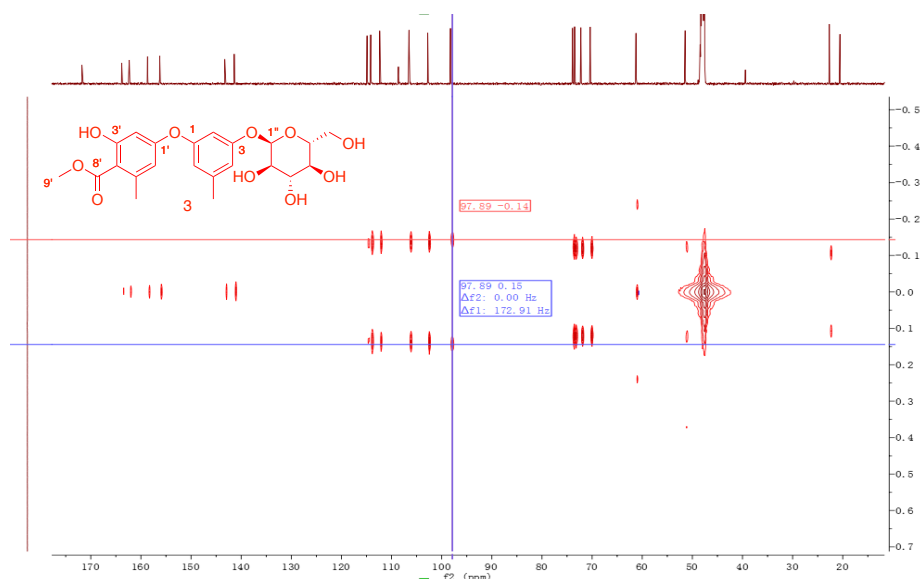


Figure S23. J Resolved HSQC spectrum of compound 3 in CD₃OD

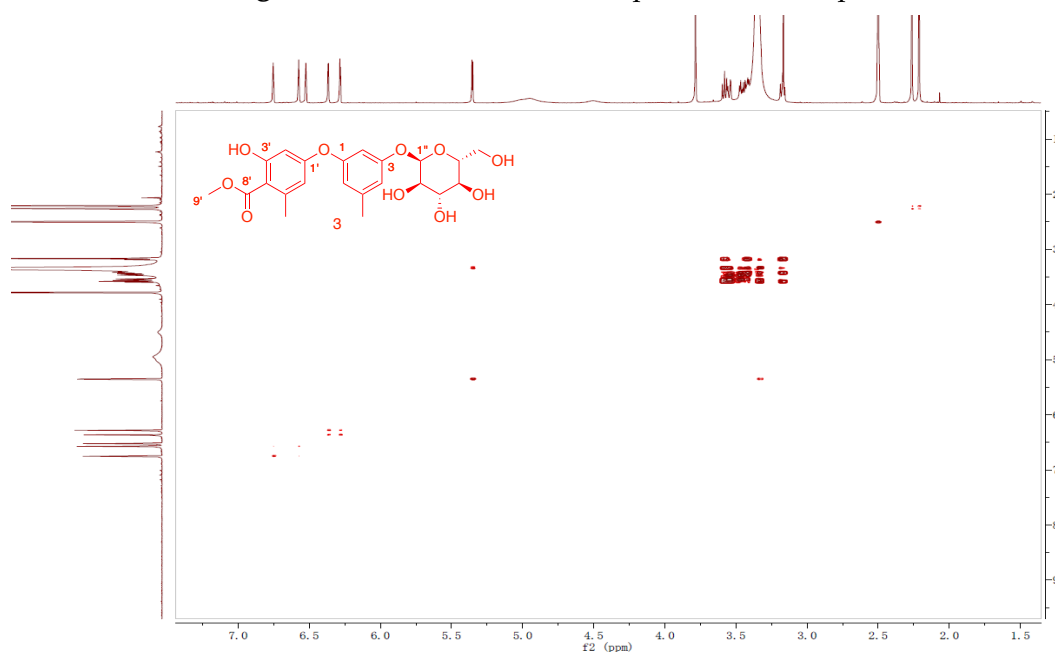


Figure S24. COSY spectrum of compound 3 in DMSO-*d*₆

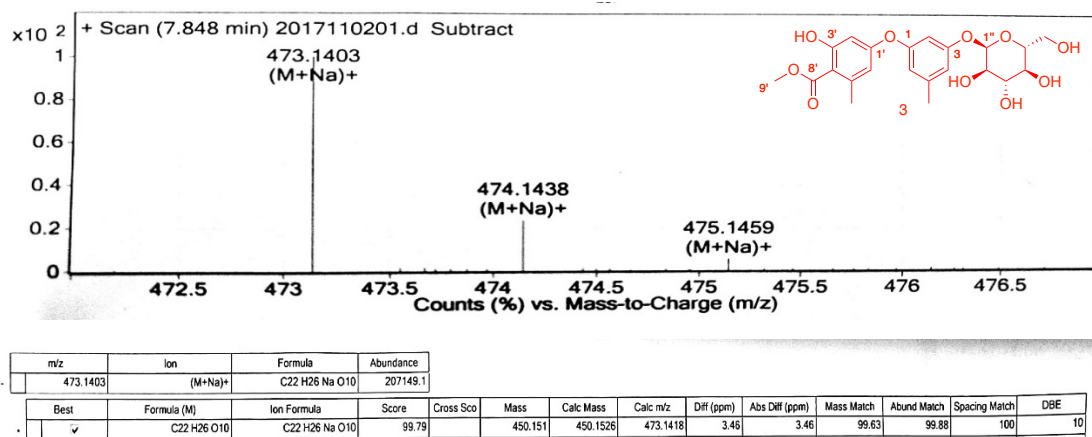


Figure S25. HRESIMS of compound 3

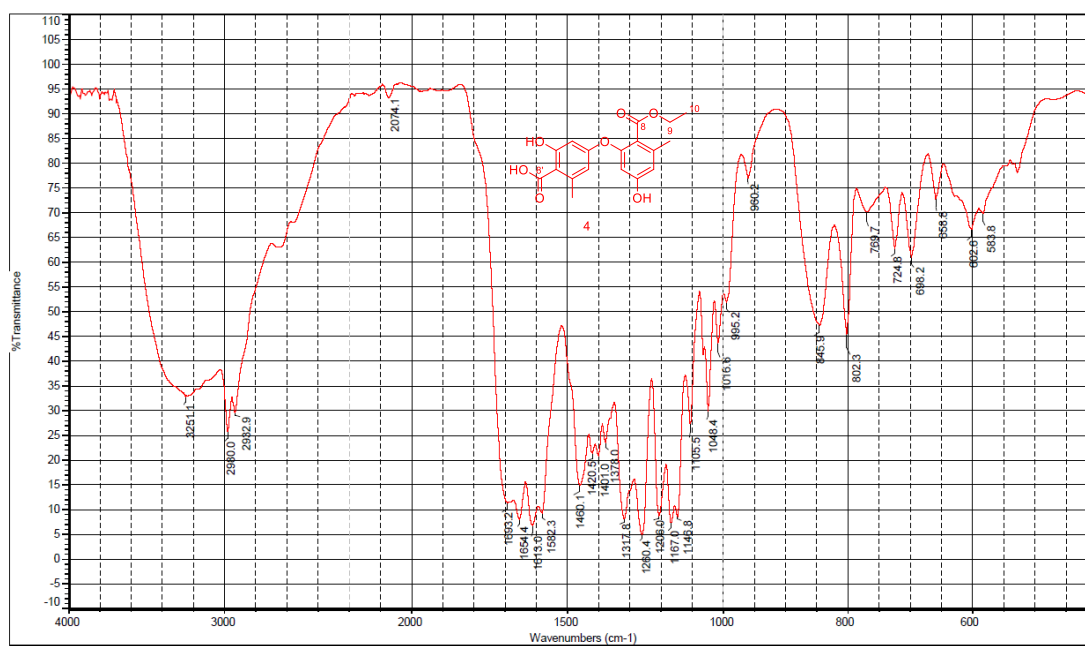


Figure S26. IR spectrum of compound 4

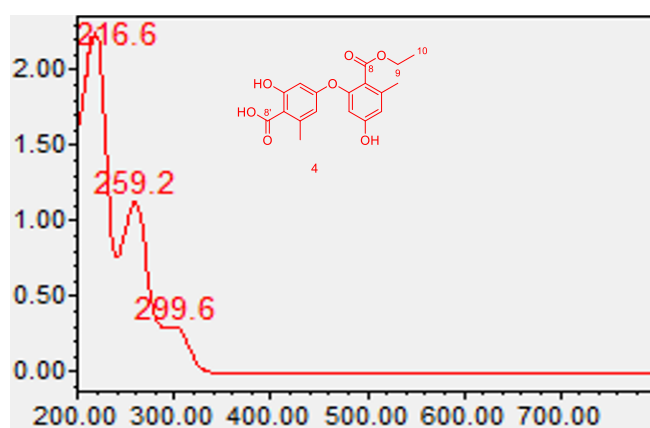


Figure S27. UV spectrum of compound 4

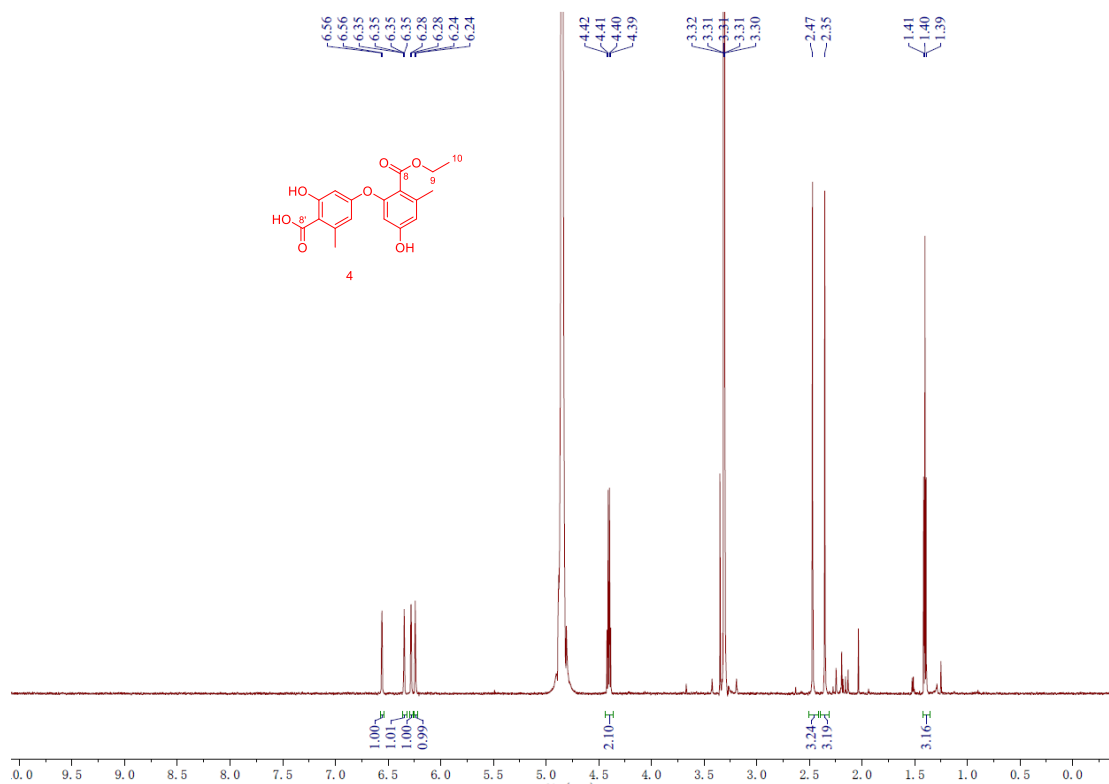


Figure S28. ¹H NMR spectrum of compound **4** in CD₃OD (600 MHz)

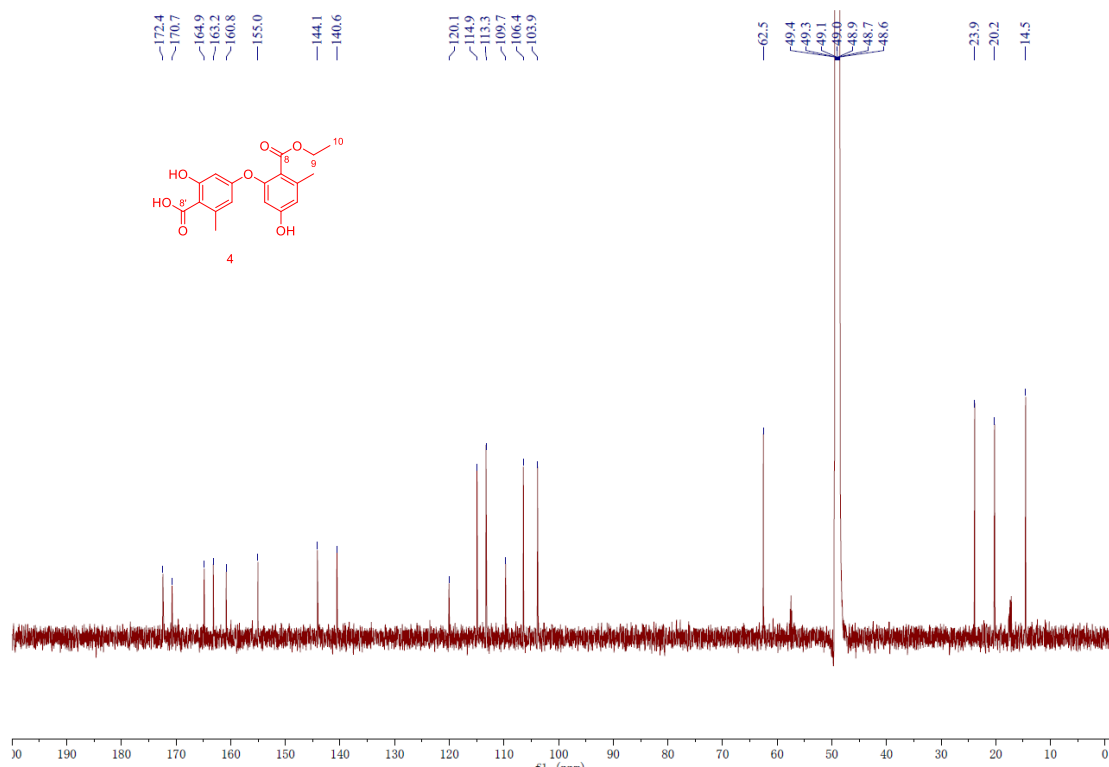


Figure S29. ¹³C NMR spectrum of compound **4** in CD₃OD (150 MHz)

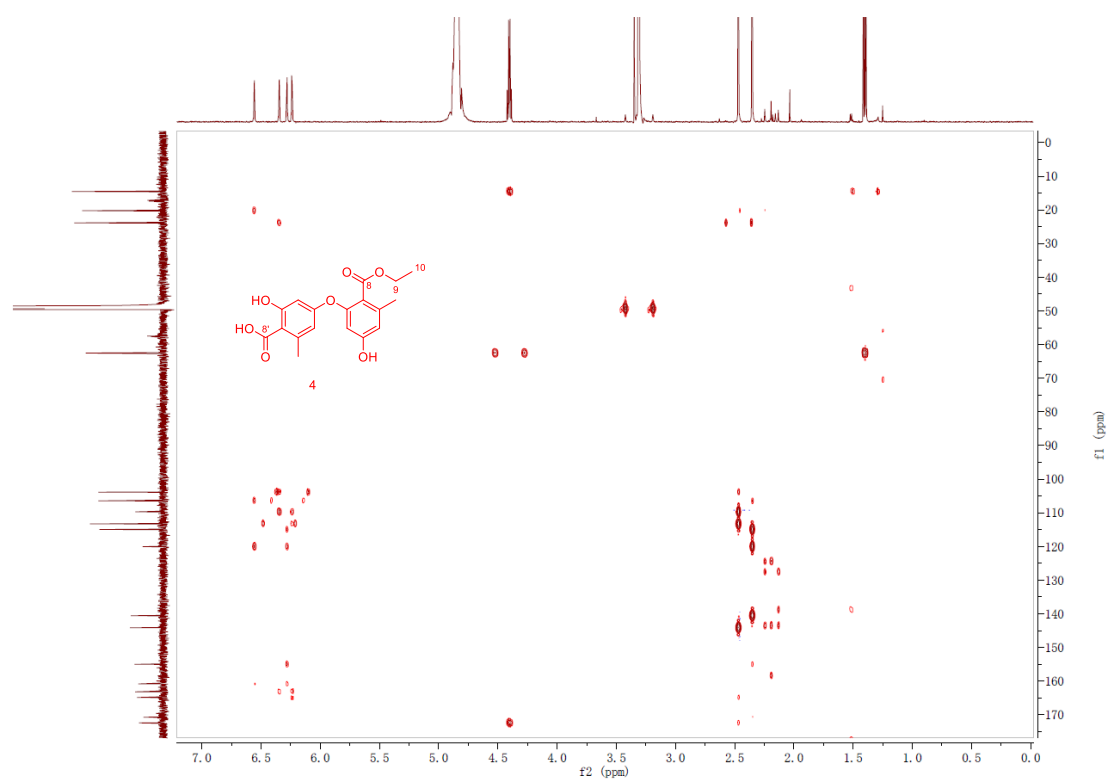


Figure S30. HMBC spectrum of compound **4** in CD₃OD

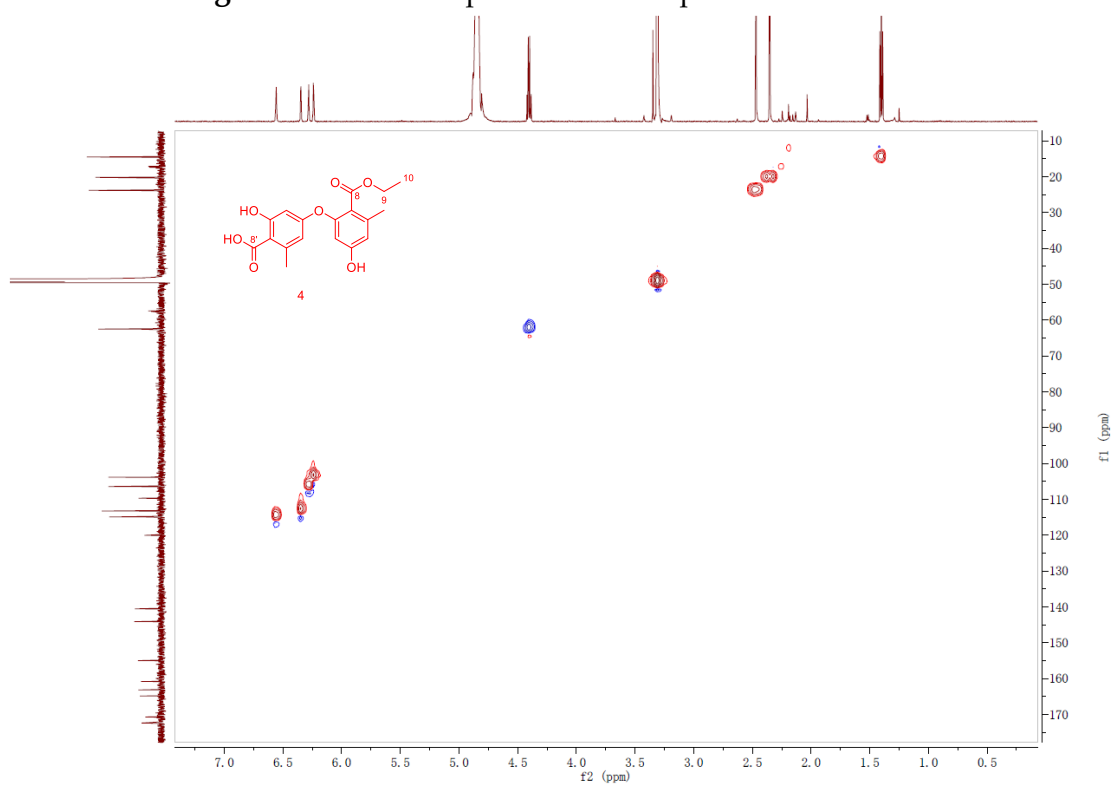


Figure S31. HSQC spectrum of compound **4** in CD₃OD

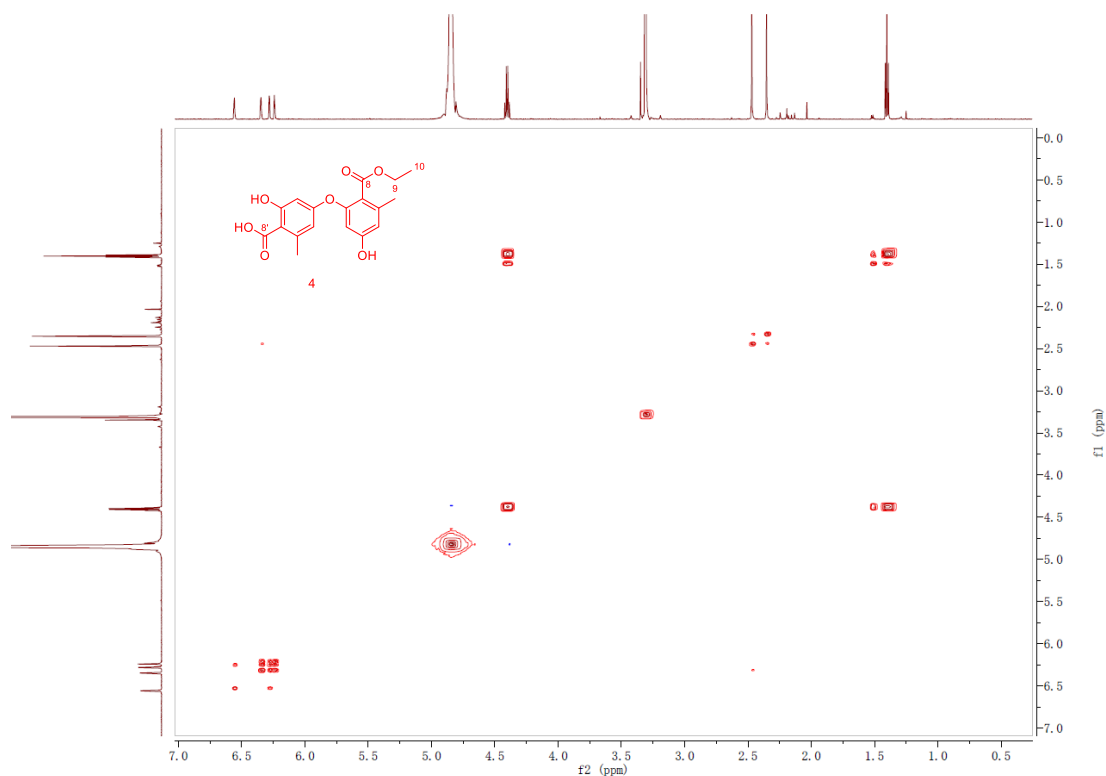
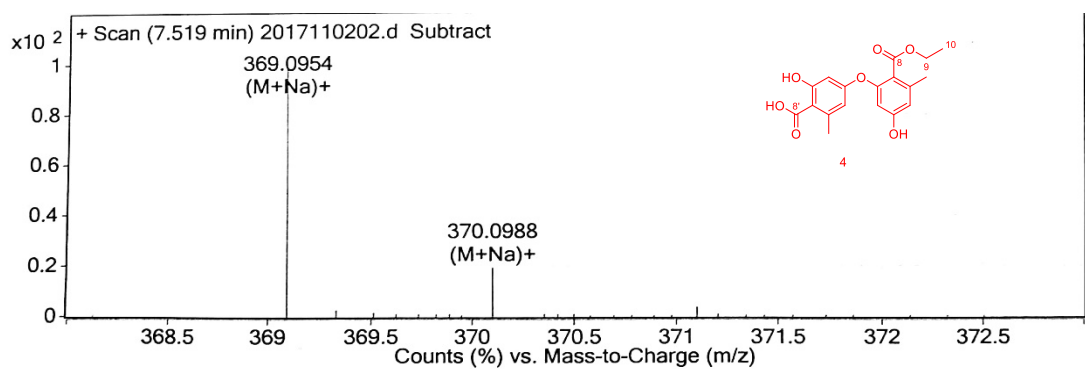


Figure S32. COSY spectrum of compound **4** in CD₃OD



m/z	Ion	Formula	Abundance
369.0954	(M+Na)+	C ₁₈ H ₁₈ NaO ₇	85544.7

Best	Formula (M)	Ion Formula	Score	Cross Sco	Mass	Calc Mass	Calc m/z	Diff (ppm)	Abs Diff (ppm)	Mass Match	Abund Match	Spacing Match	DBE
✓	C ₁₈ H ₁₈ O ₇	C ₁₈ H ₁₈ NaO ₇	99.88		346.1062	346.1053	369.0945	-2.61	2.61	99.81	99.94	99.94	1

Figure S33. HRESIMS of compound **4**

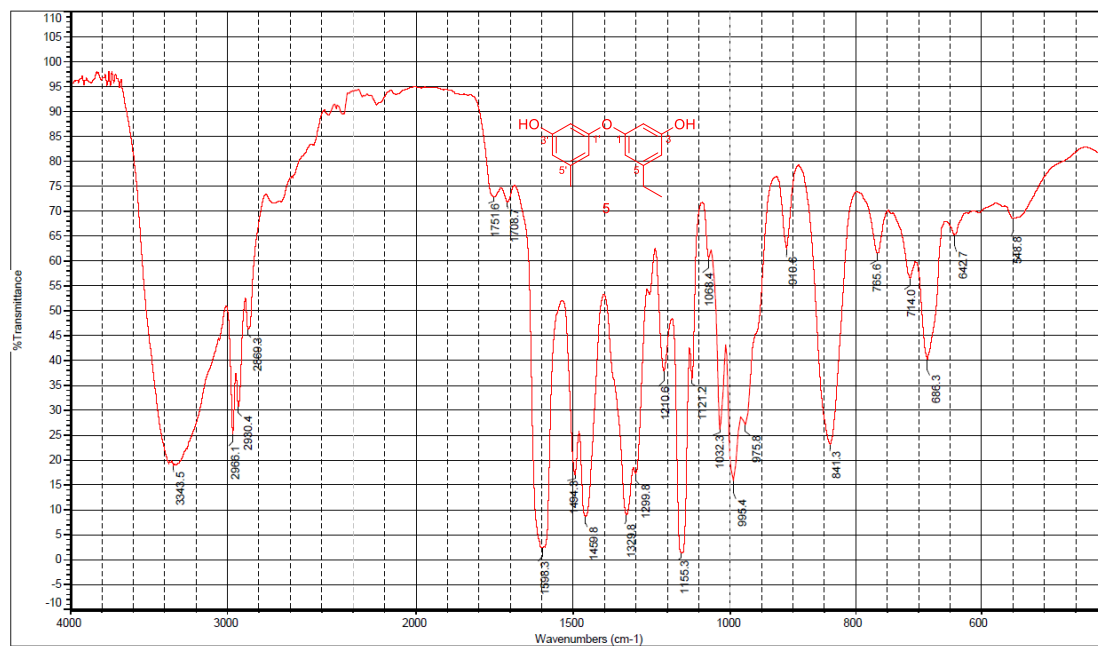


Figure S34. IR spectrum of compound 5

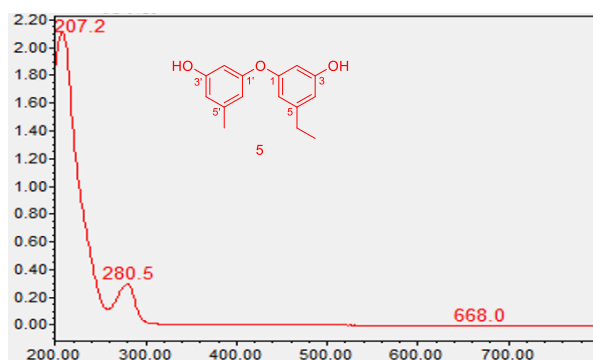


Figure S35. UV spectrum of compound 5

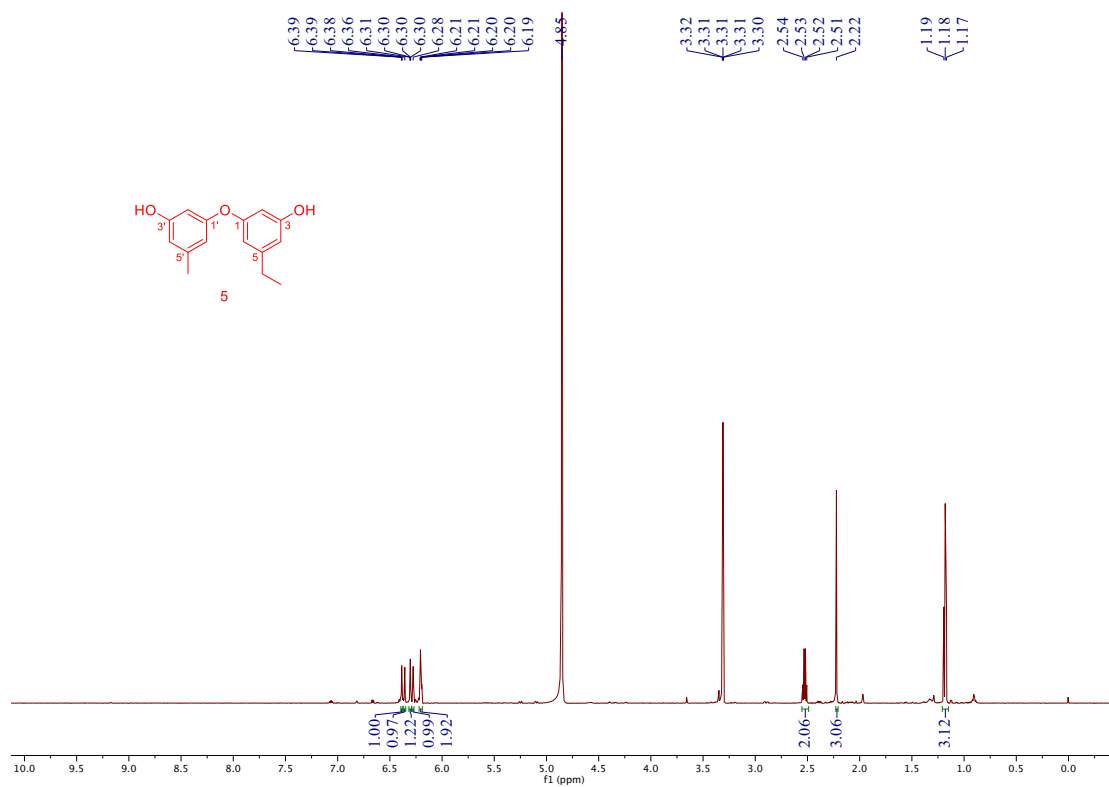


Figure S36. ¹H NMR spectrum of compound **5** in CD₃OD (600 MHz)

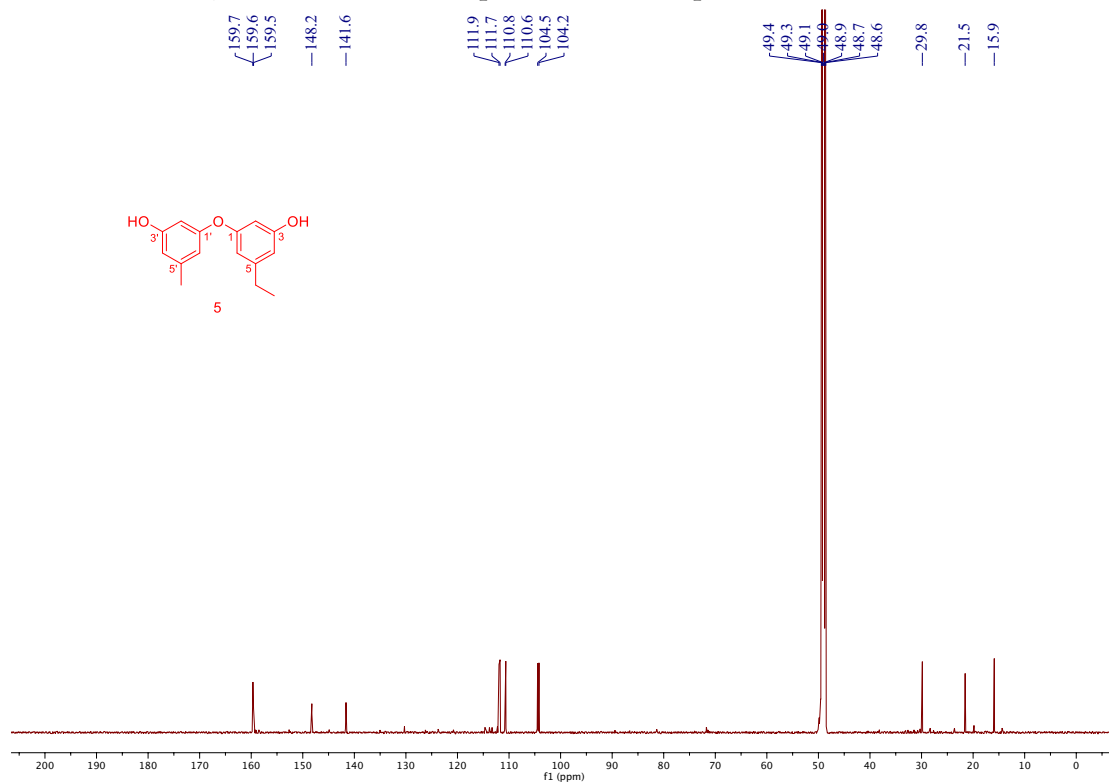


Figure S37. ¹³C NMR spectrum of compound **5** in CD₃OD (150 MHz)

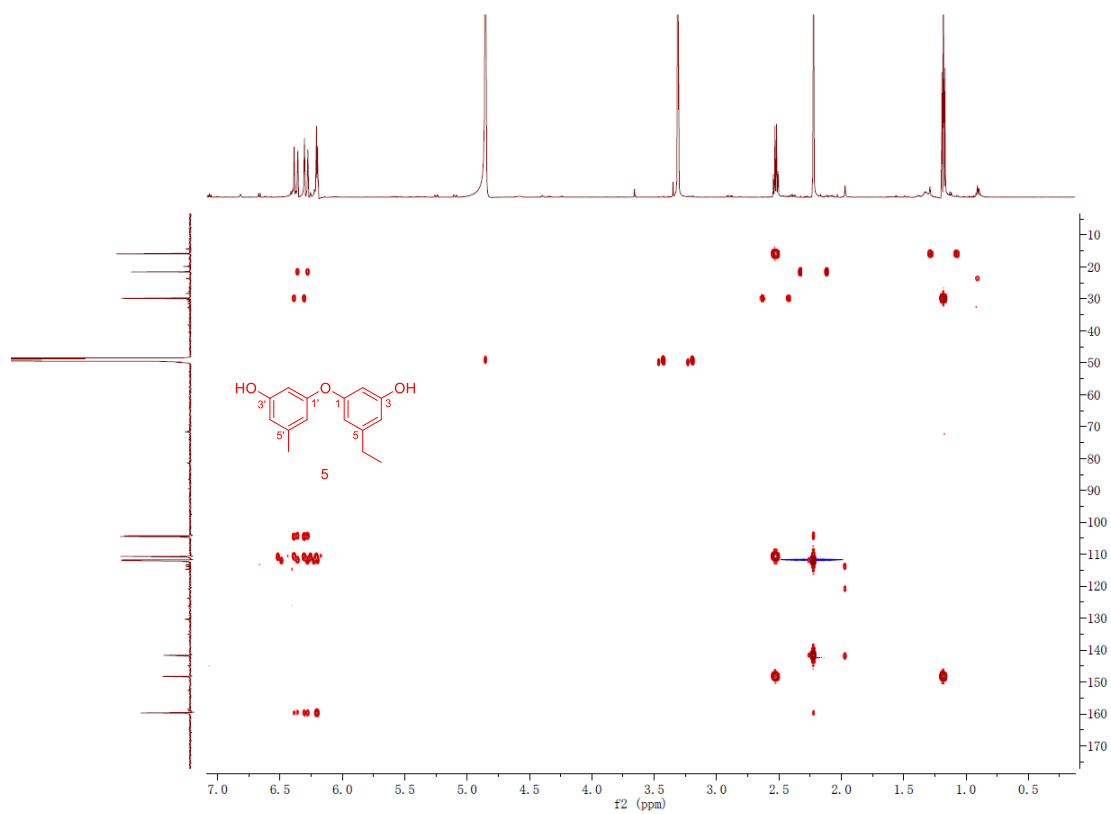


Figure S38. HMBC spectrum of compound **5** in CD₃OD

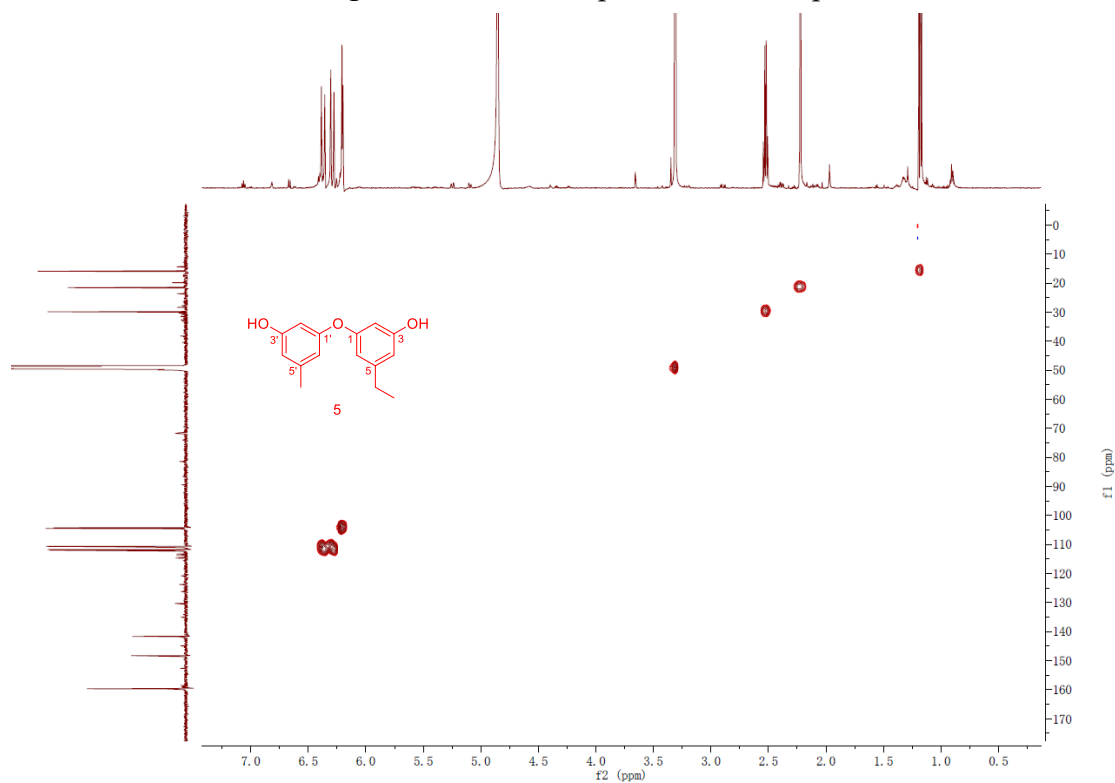


Figure S39. HSQC spectrum of compound **5** in CD₃OD

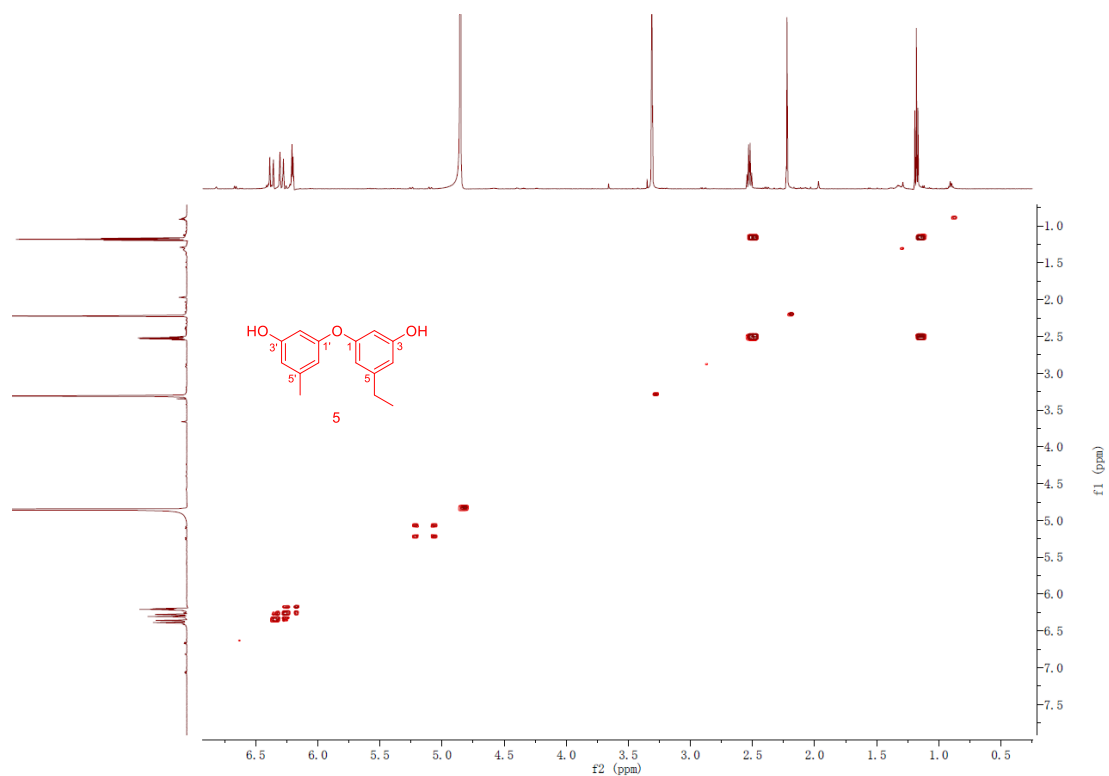
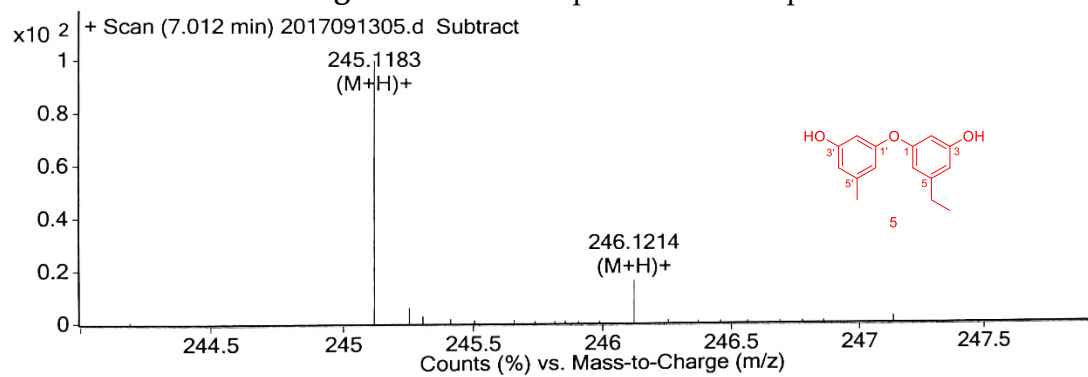


Figure S40. COSY spectrum of compound **5** in CD₃OD



m/z	Ion	Formula	Abundance
245.1183	(M+H) ⁺	C ₁₅ H ₁₇ O ₃	629669.1

Best	Formula (M)	Ion Formula	Score	Cross Sco	Mass	Calc Mass	Calc m/z	Diff (ppm)	Abs Diff (ppm)	Mass Match	Abund Match	Spacing Match	DBE
✓	C ₁₅ H ₁₆ O ₃	C ₁₅ H ₁₇ O ₃	99.49		244.111	244.1099	245.1172	-4.28	4.28	99.46	99.94	99.01	8

Figure S41. HRESIMS of compound **5**

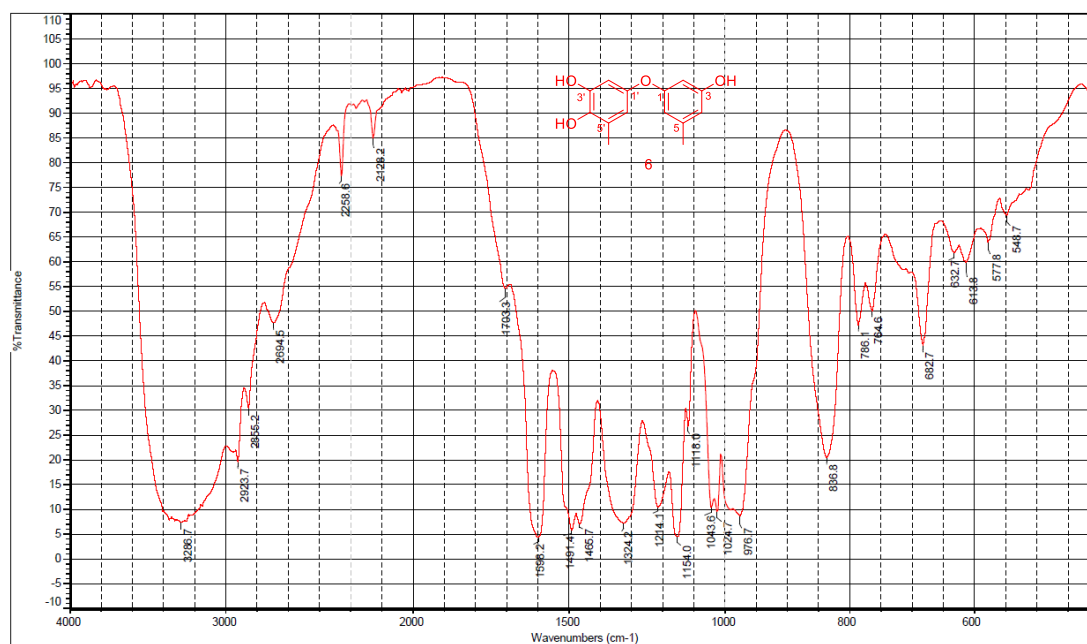


Figure S42. IR spectrum of compound 6

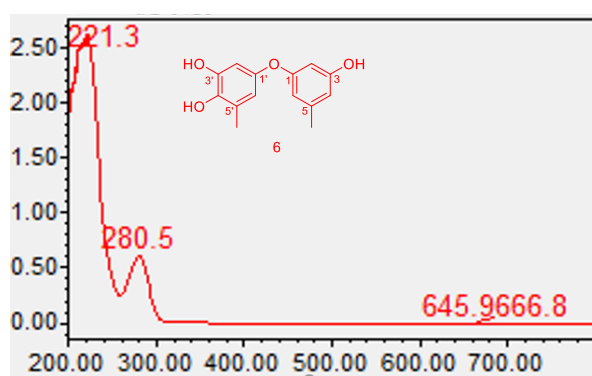


Figure S43. UV spectrum of compound 6

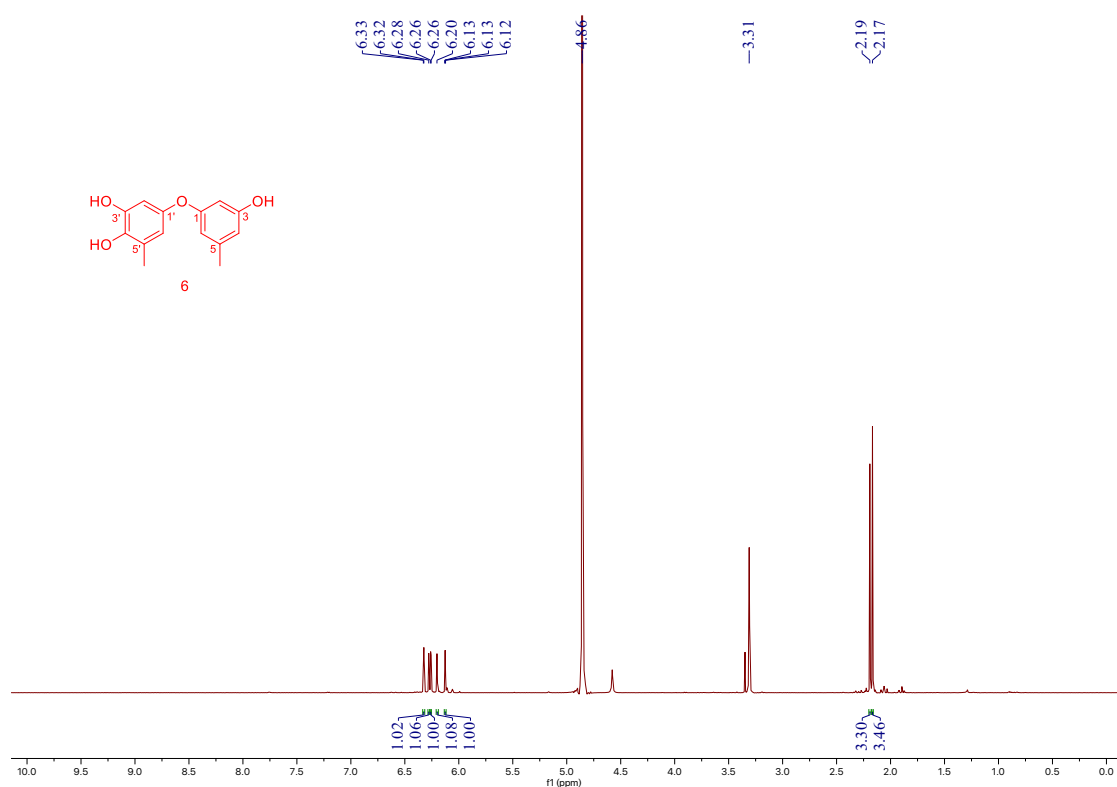


Figure S44. ¹H NMR spectrum of compound **6** in CD₃OD (600 MHz)

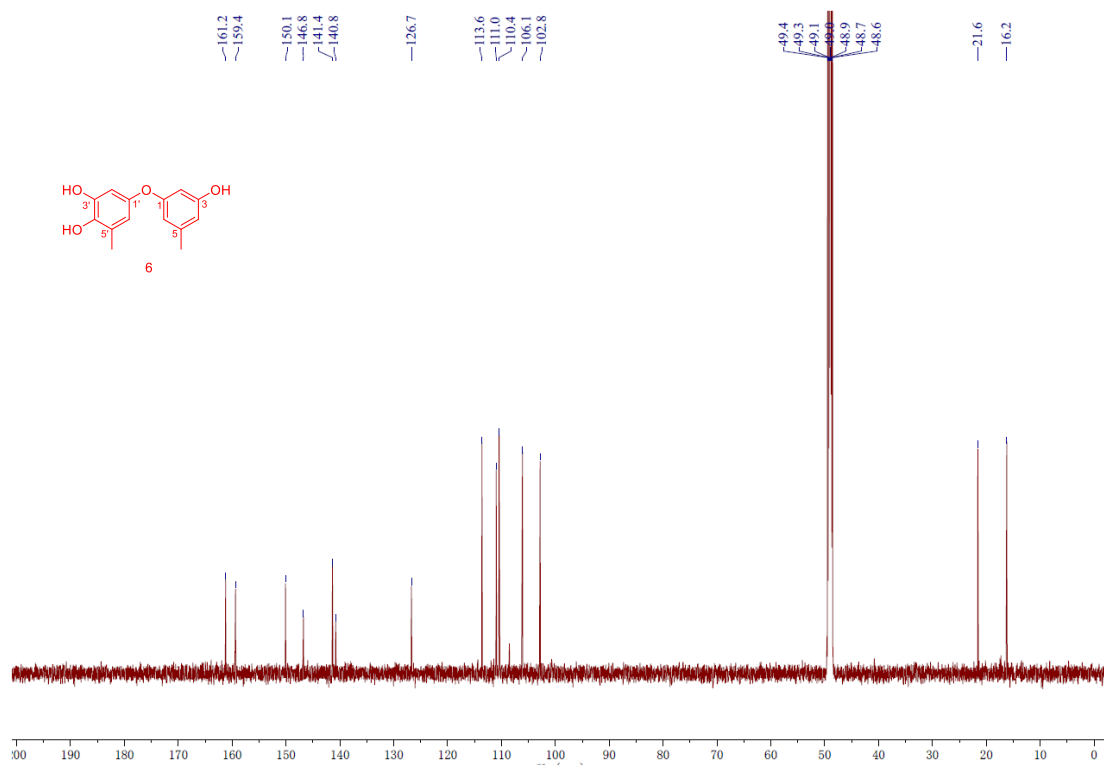


Figure S45. ¹³C NMR spectrum of compound **6** in CD₃OD (150 MHz)

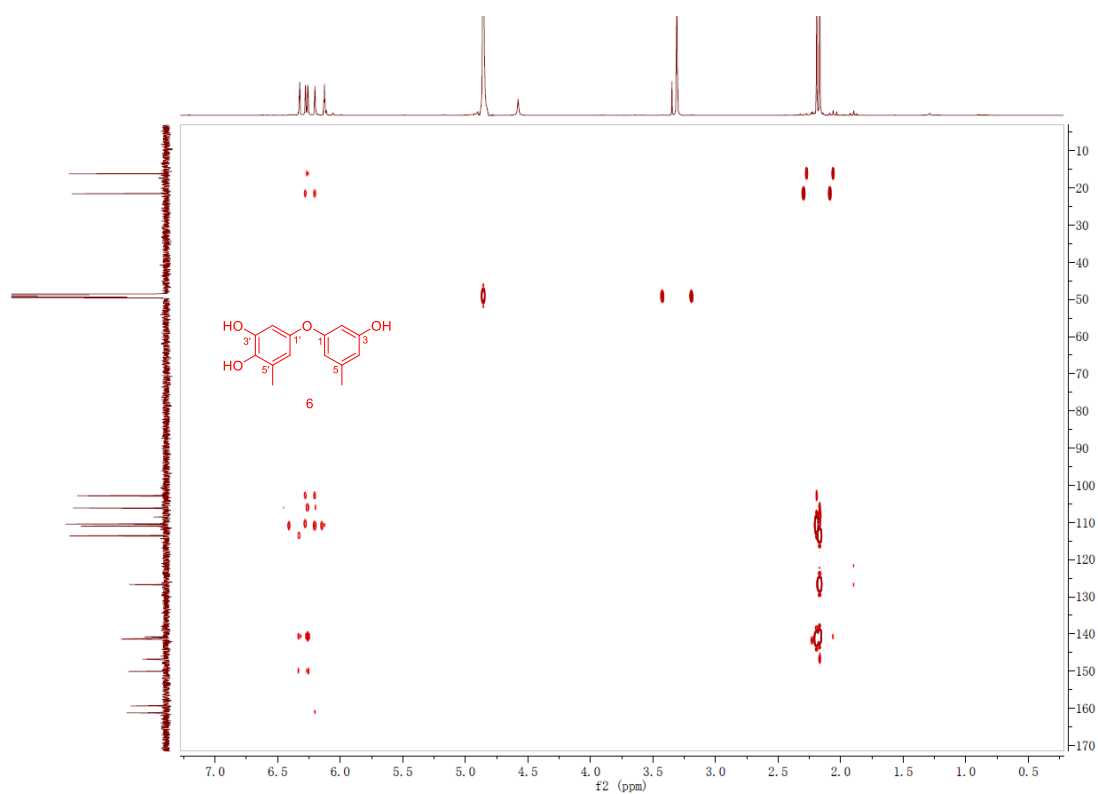


Figure S46. HMBC spectrum of compound 6 in CD₃OD

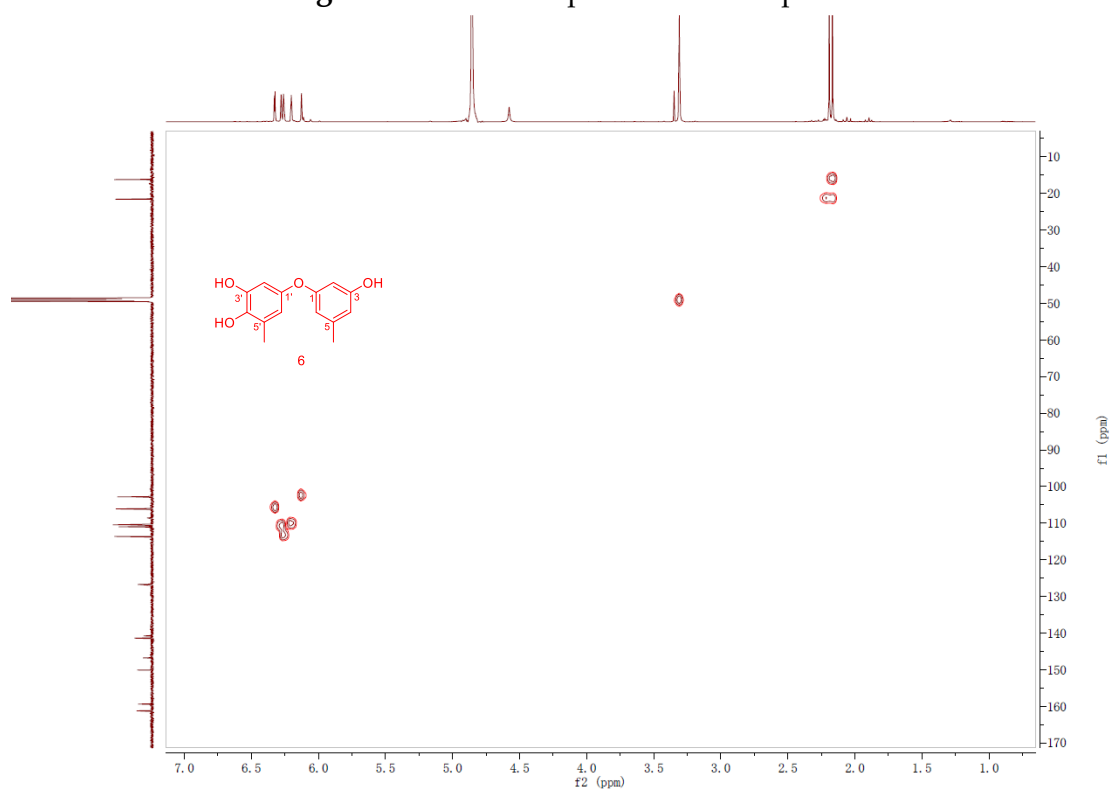


Figure S47. HSQC spectrum of compound 6 in CD₃OD

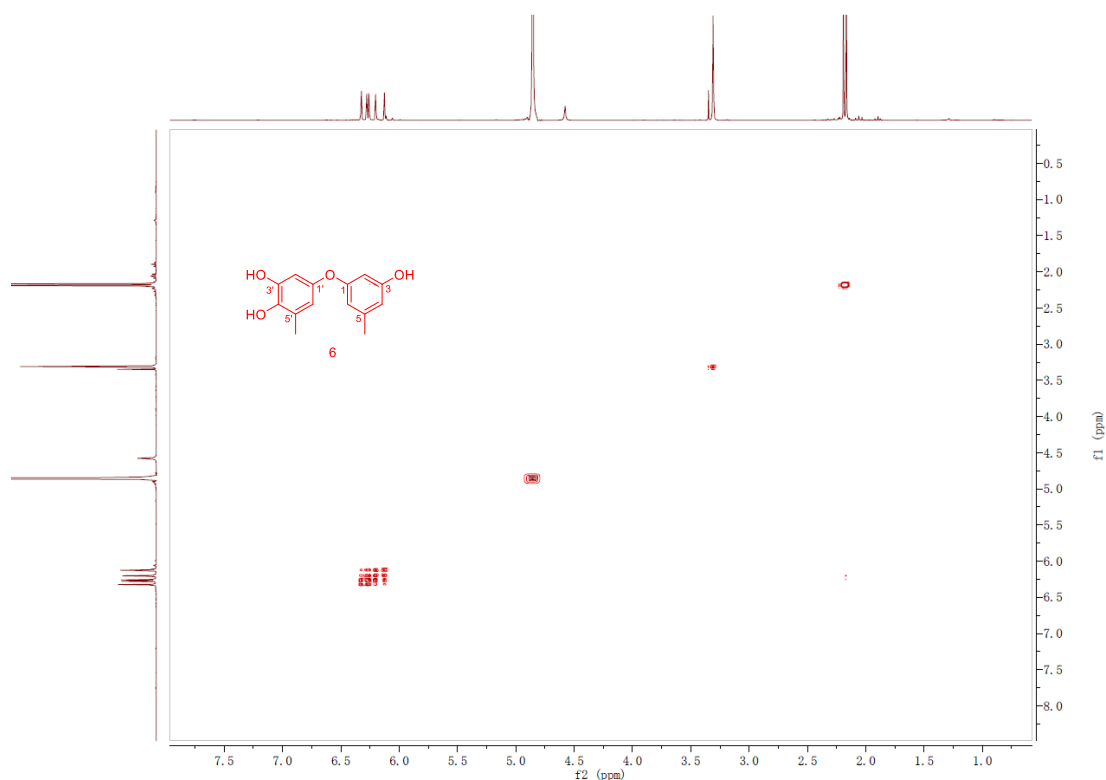


Figure S48. COSY spectrum of compound **6** in CD₃OD

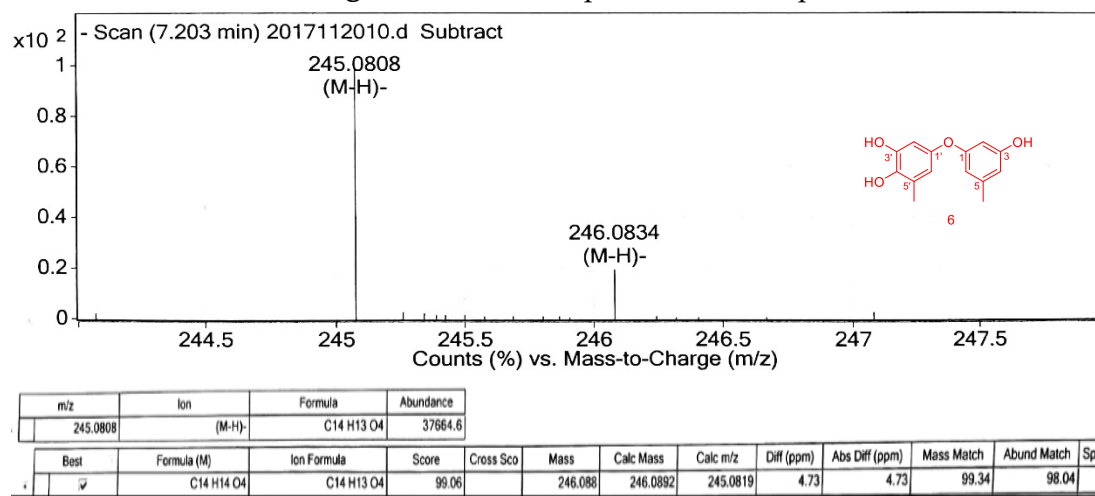


Figure S49. HRESIMS of compound **6**

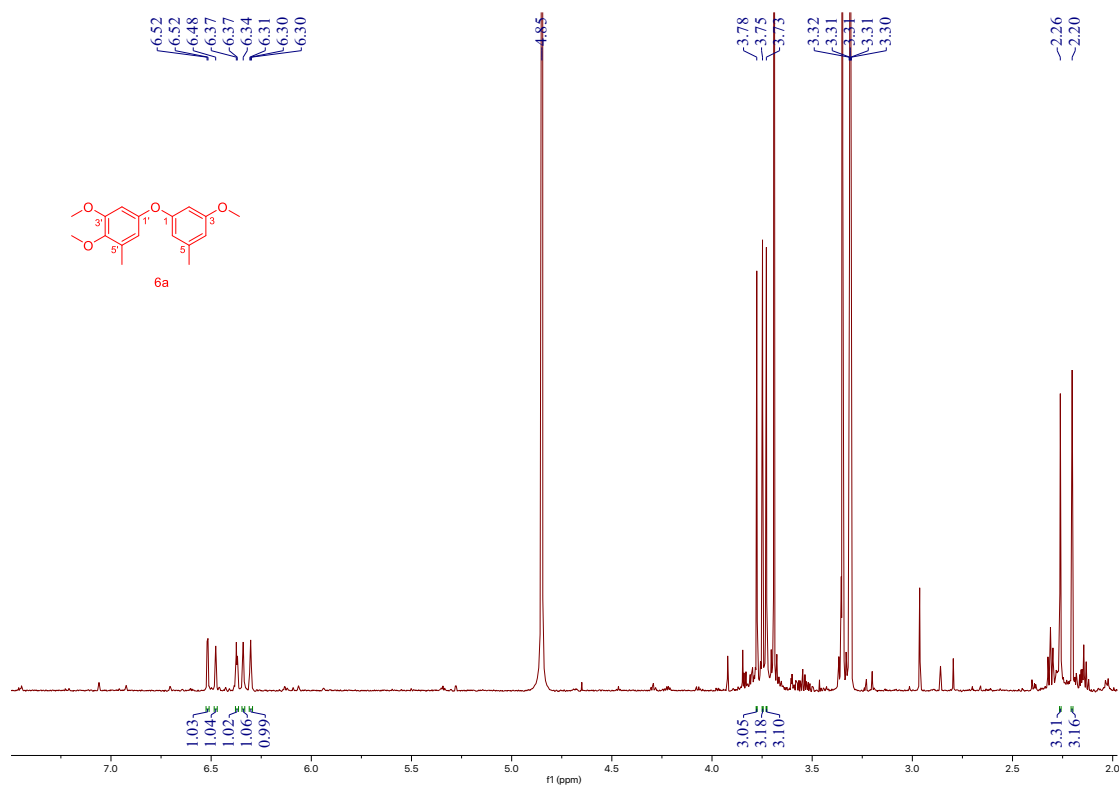


Figure S50. ¹H NMR spectrum of compound **6a** in CD₃OD (600 MHz)

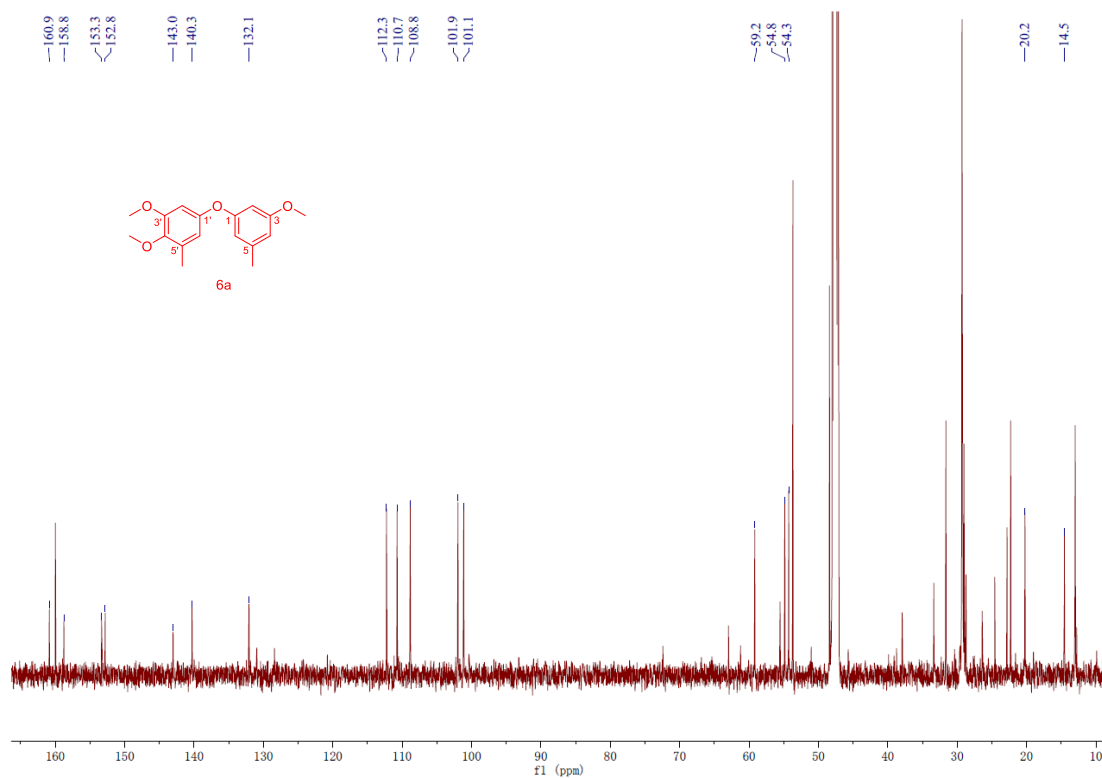


Figure S51. ¹³C NMR spectrum of compound **6a** in CD₃OD (150 MHz)

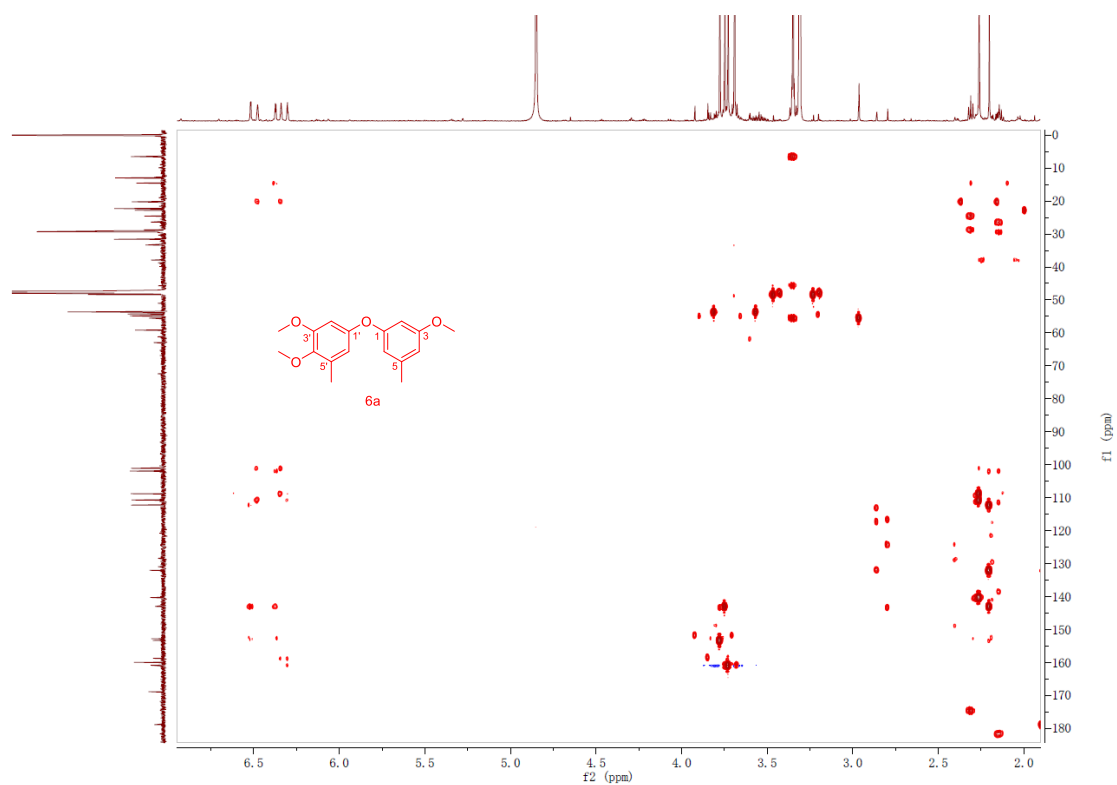


Figure S52. HMBC spectrum of compound **6a** in CD₃OD

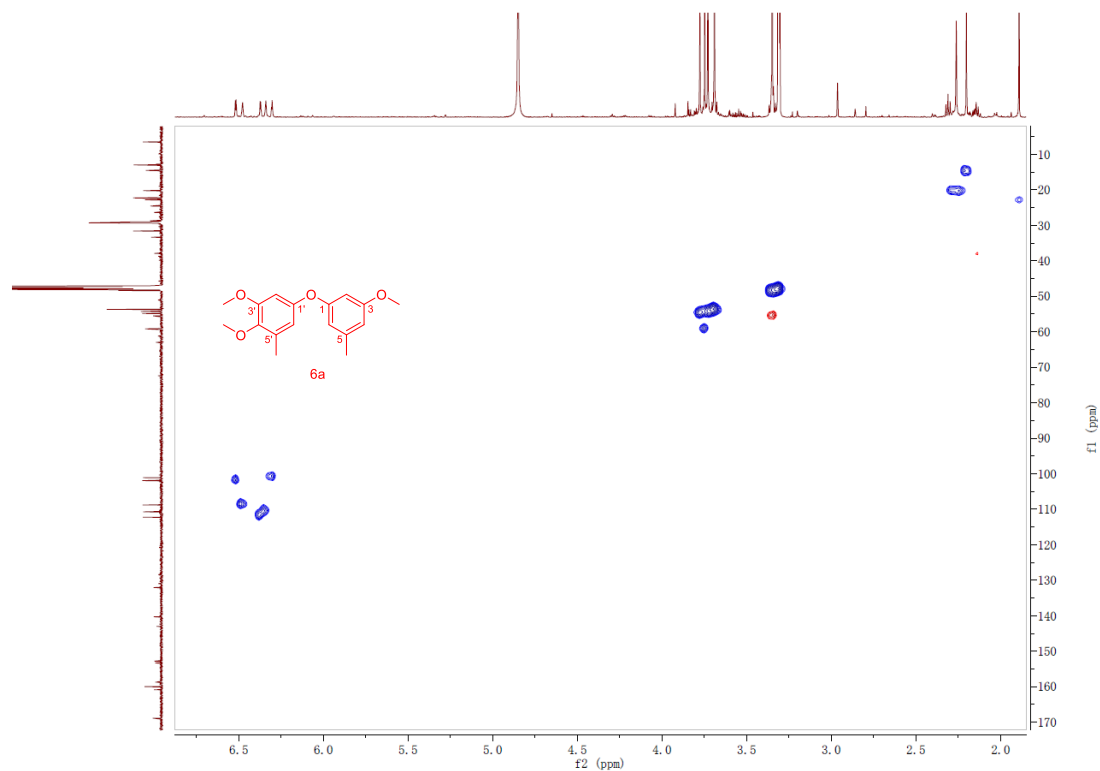


Figure S53. HSQC spectrum of compound **6a** in CD₃OD

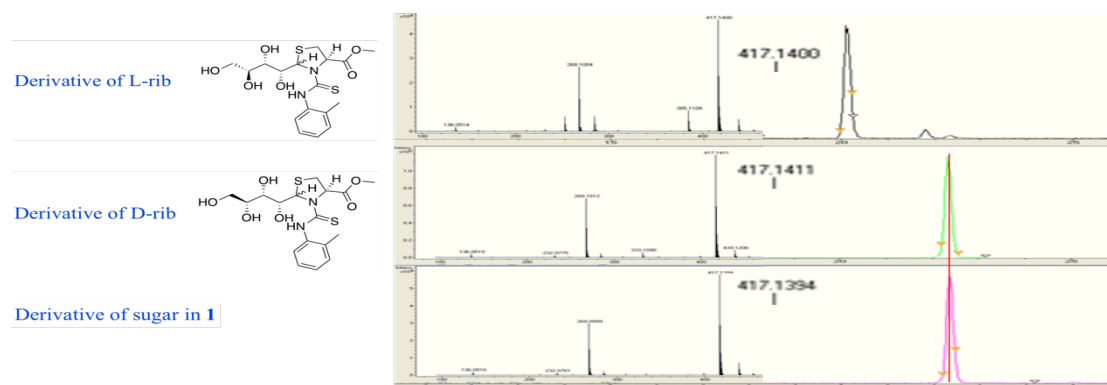


Figure S54. LC-ESI-MS analysis of derivative of sugar moiety in **1**.

The sugar moiety in **1** was determined as D-ribose by ESI mass spectrum (extraction ion chromatogram at m/z 417, t_R 20.1 for L-ribose, t_R 22.3 for D-ribose).

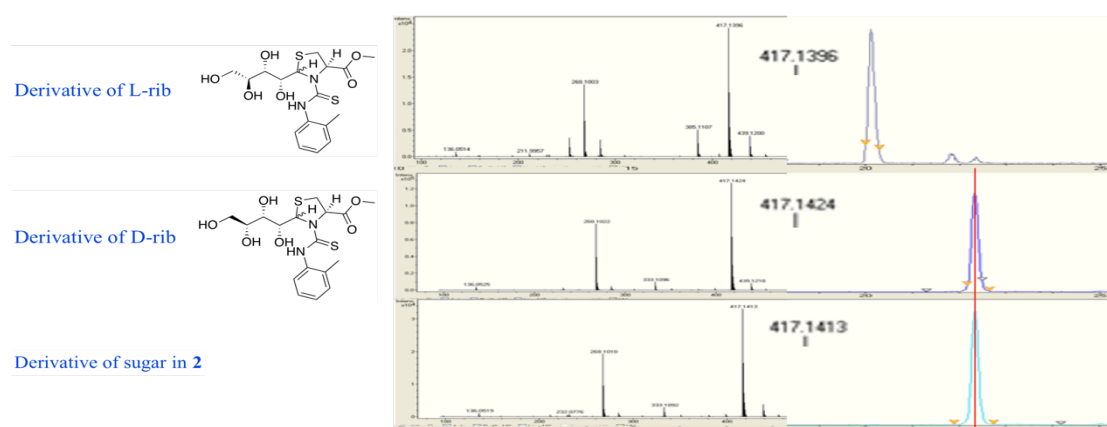


Figure S55. LC-ESI-MS analysis of derivatives of sugar moiety in **2**. The sugar moiety in **2** was determined as D-ribose by ESI mass spectrum (extraction ion chromatogram at m/z 417, t_R 20.1 for L-ribose, t_R 22.3 for D-ribose).

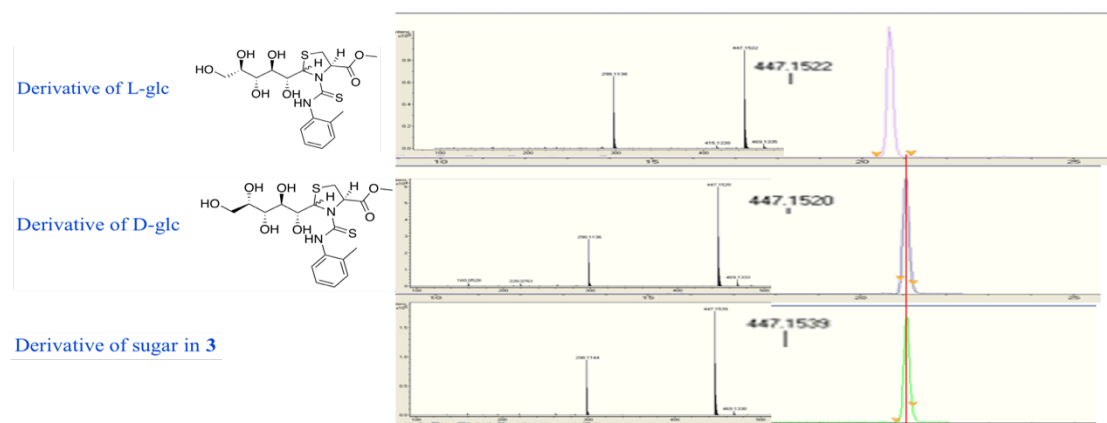


Figure S56. LC-ESI-MS analysis of derivatives of sugar moiety in **3**. The sugar moiety in **3** was determined as D-glucose by ESI mass spectrum (extraction ion chromatogram at m/z 447, t_R 20.6 for L-glucose, t_R 21.0 for D-glucose).

>TGCTCGTAGTGACCTGCGGAAGGATCATTACTGAGTGCGGGCTGCCTCCGGGGCGCCCAACCTCC
CACCCGTGAATACCTAACACTGTTGCTTCGGCGGGGAGCTCCCTCGGGGGCGAGCCGCCGGGG
ACTACTGAACTTCATGCCTGAGAGTGATGCAGTCTGAGTCTGAATATAAAATCAGTCAAACTTT
CAACAATGGATCTCTTGTTCCGGCATCGATGAAGAACGCAGCGAACTGCGATAAGTAATGTGA
ATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGGCATTCCGGGGGG
CATGCCTGTCCGAGCGTCATTGCTGCCCATCAAGCCCGGCTTGTGTGTTGGGTCGTCGTCCCCC
CGGGGGACGGGCCCCGAAAGGCAGCGGCGGCACCGTGTCCGGTCCTCGAGCGTATGGGGCTTTA
TCACCCGCTCGACTAGGGCCGGCCGGGCGCCAGCCGACGTCTCCAACCATTTTCTTCAGGTTG
ACCTCGGATCAGGTAGGGATACCCGCTGAACTTAAGCATATCAATAAGCGGAGGAA//

Figure S57. The internal transcribed spacers (ITS) sequence of strain FNA026