

Electronic Supplementary Information (ESI)

Ancistrolilikokines E-H and Related 5,8'-Coupled Naphthylisoquinoline Alkaloids from the Congolese Liana *Ancistrocladus likoko* with Antiausterity Activities against PANC-1 Human Pancreatic Cancer Cells

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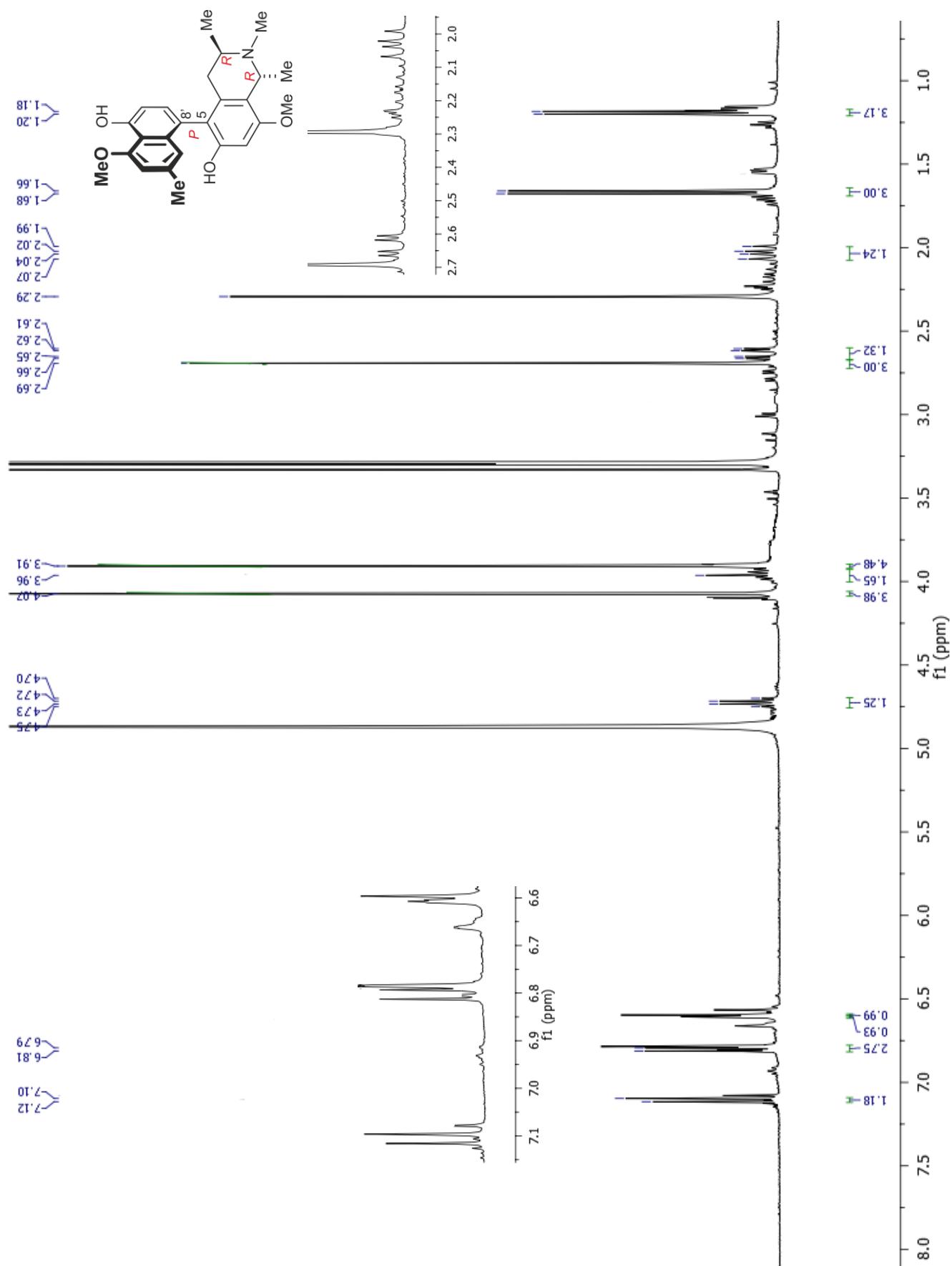


Figure S1. ^1H NMR spectrum of ancistrolikokine A₂ (**13**).

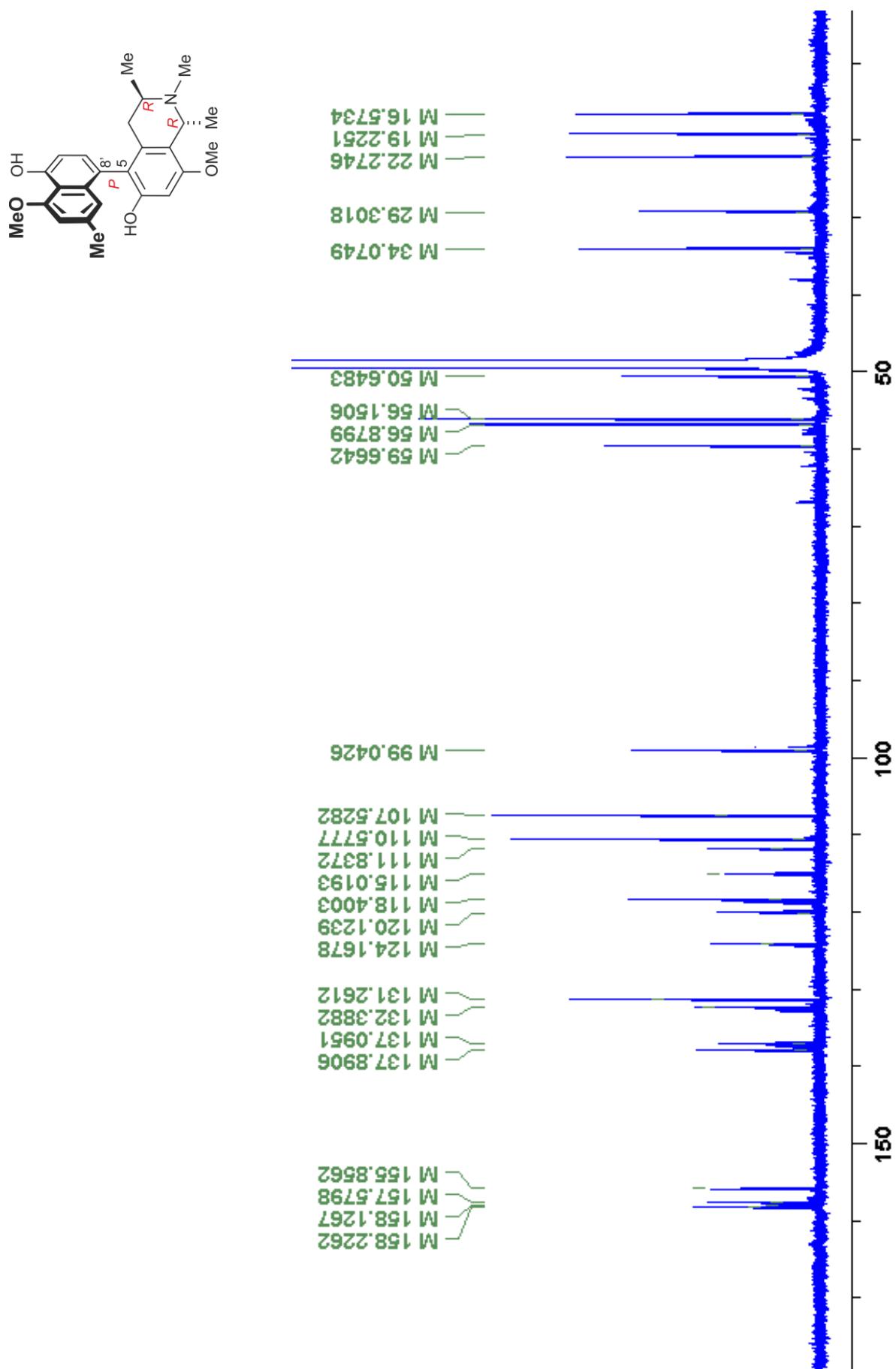


Figure S2. ^{13}C NMR spectrum of ancistrolikokine A₂ (**13**).

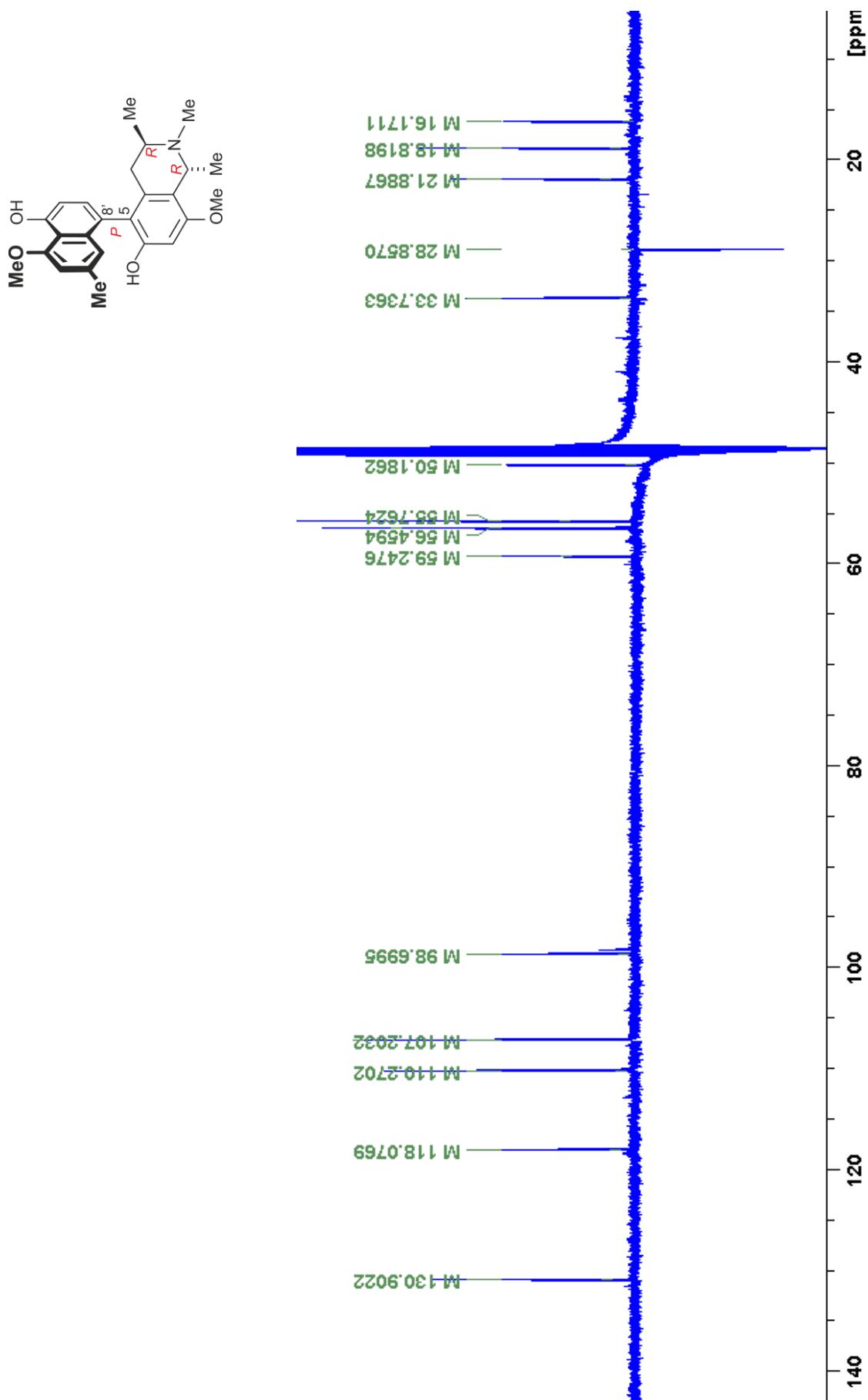


Figure S3. ¹³C DEPT spectrum of ancistrolikokine A₂ (**13**).

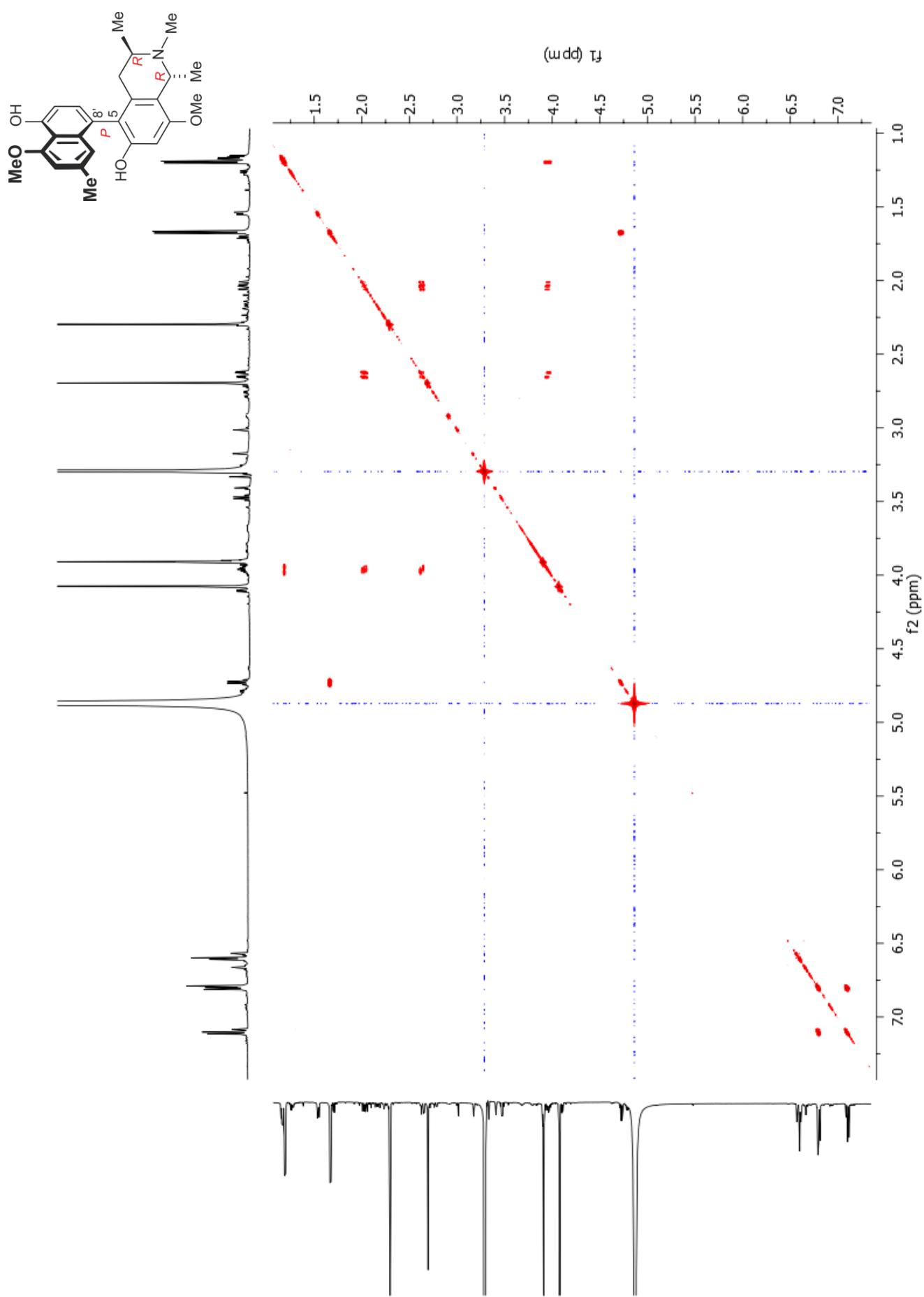


Figure S4. COSY spectrum of ancistrolilikokine A₂ (**13**).

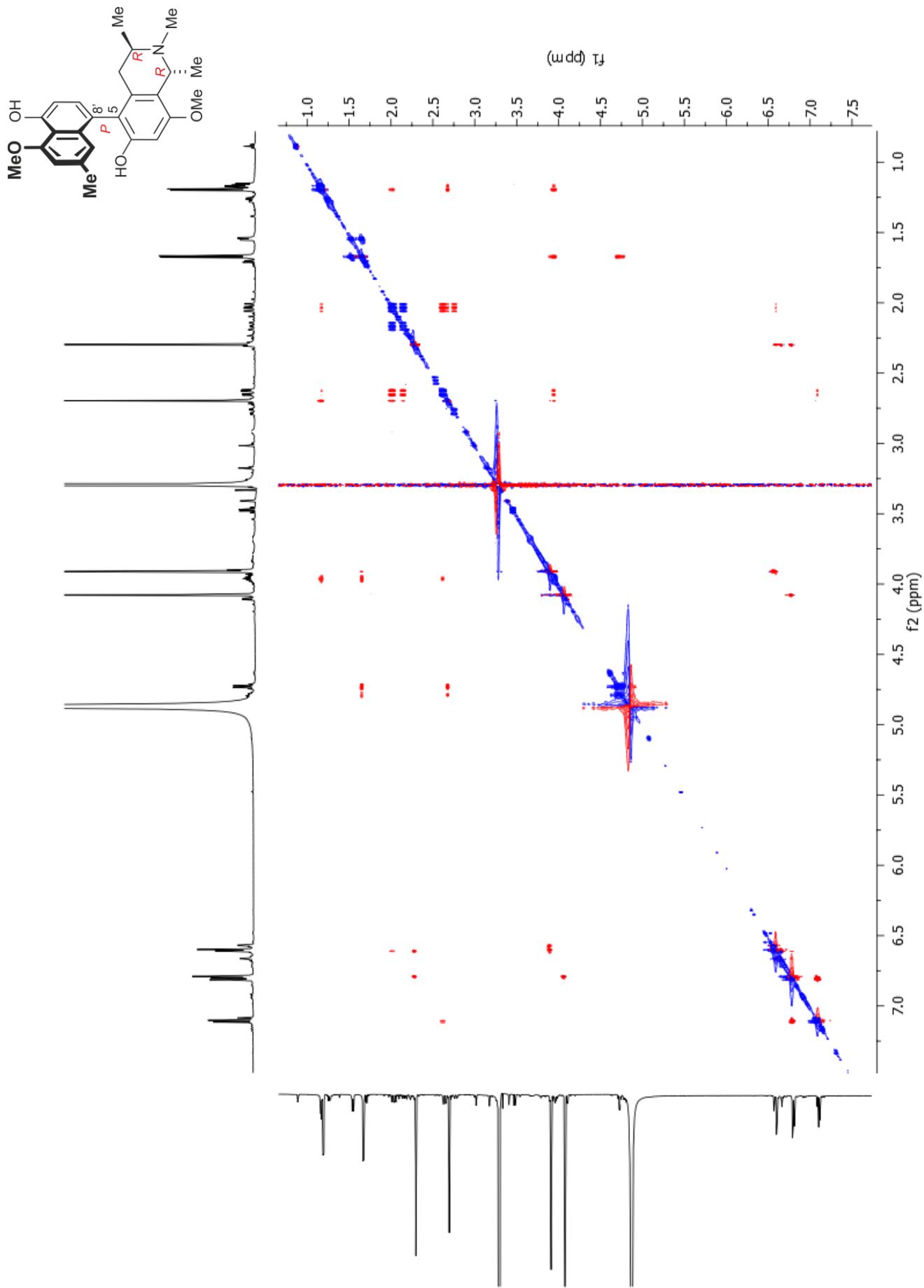


Figure S5. ¹H-¹H NOESY spectrum of ancistrolilikokine A₂ (**13**).

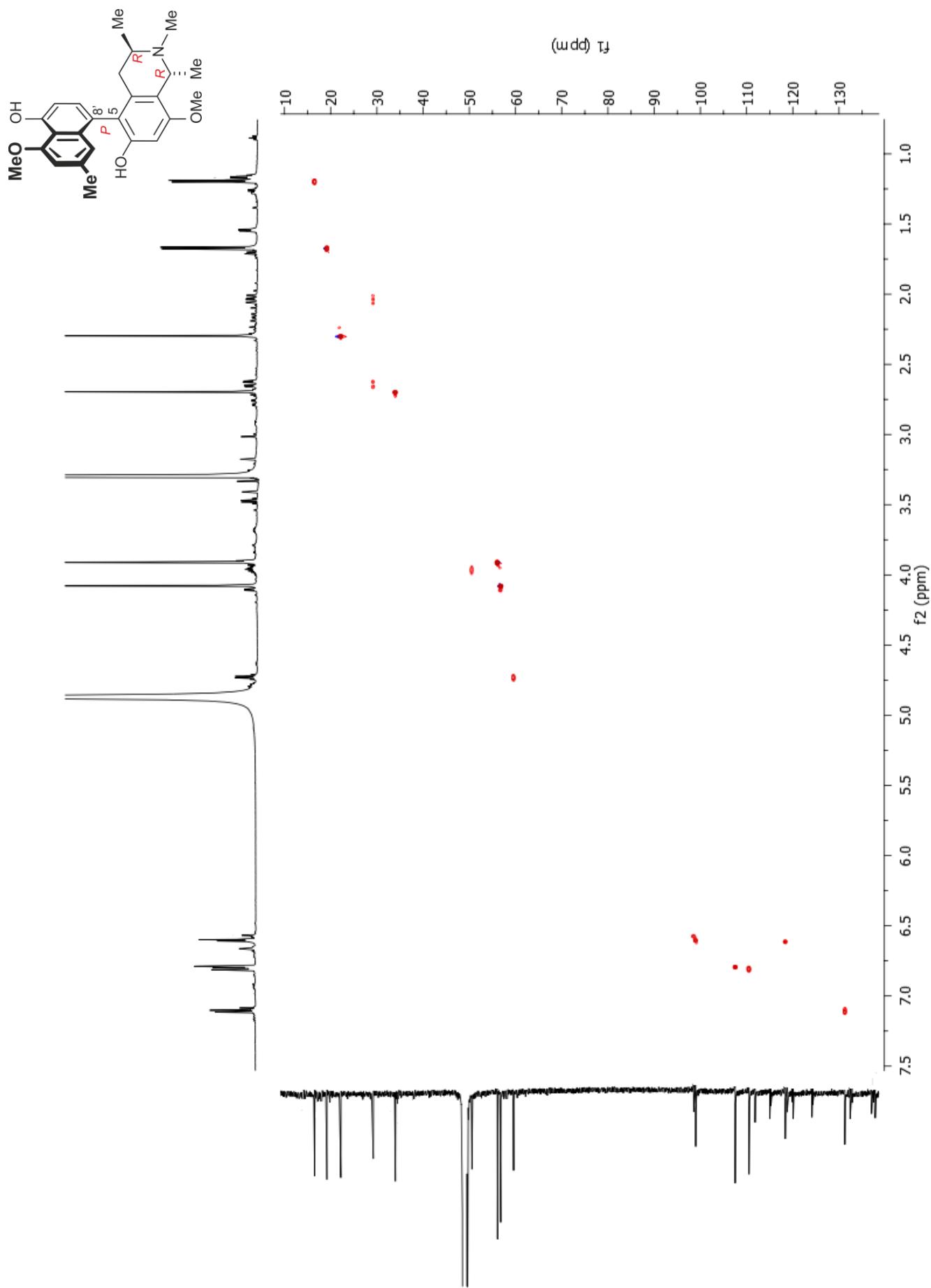


Figure S6. HSQC spectrum of ancistrolikokine A₂ (**13**).

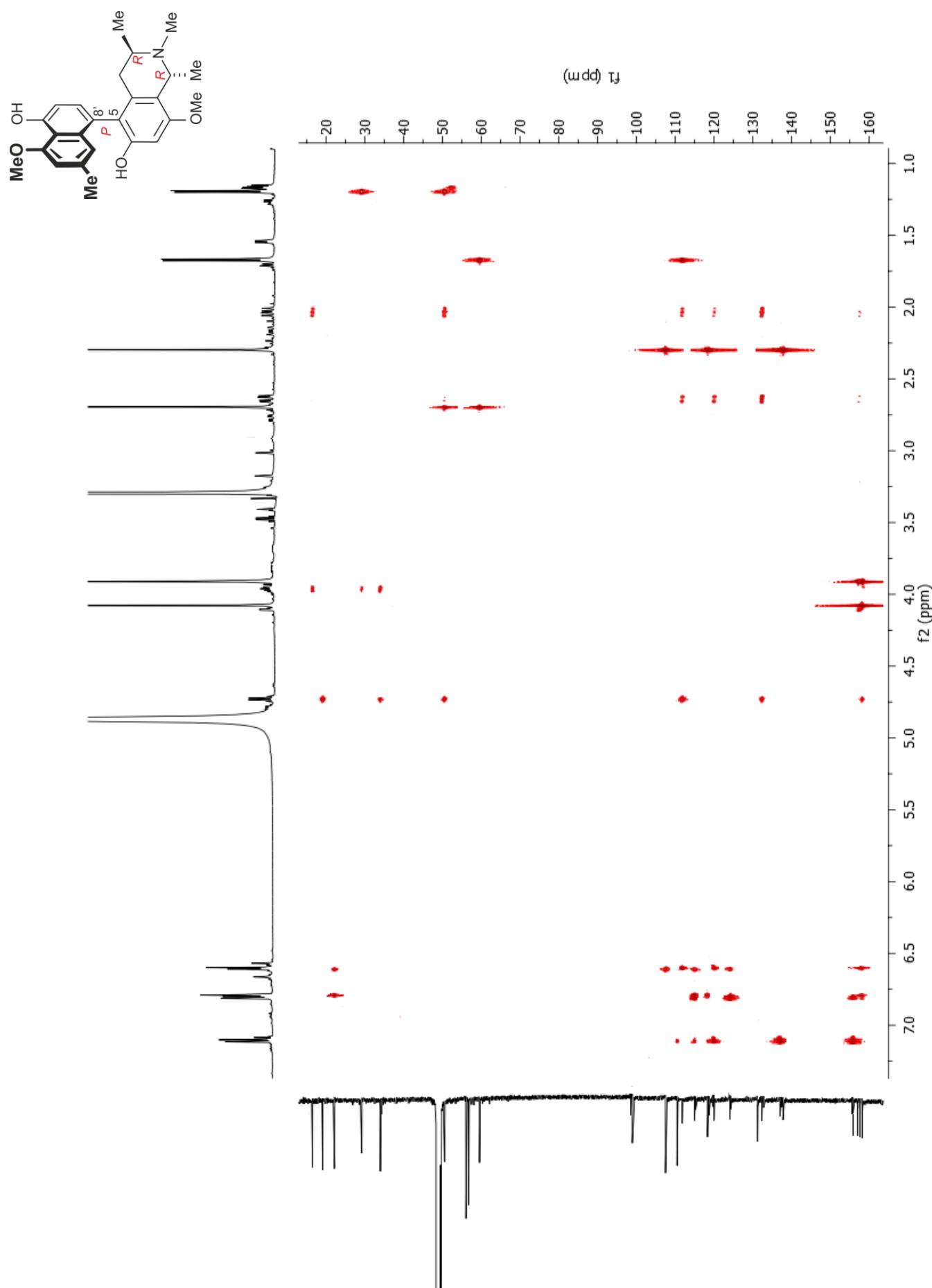


Figure S7. HMBC spectrum of ancistrolilikokine A₂ (**13**).

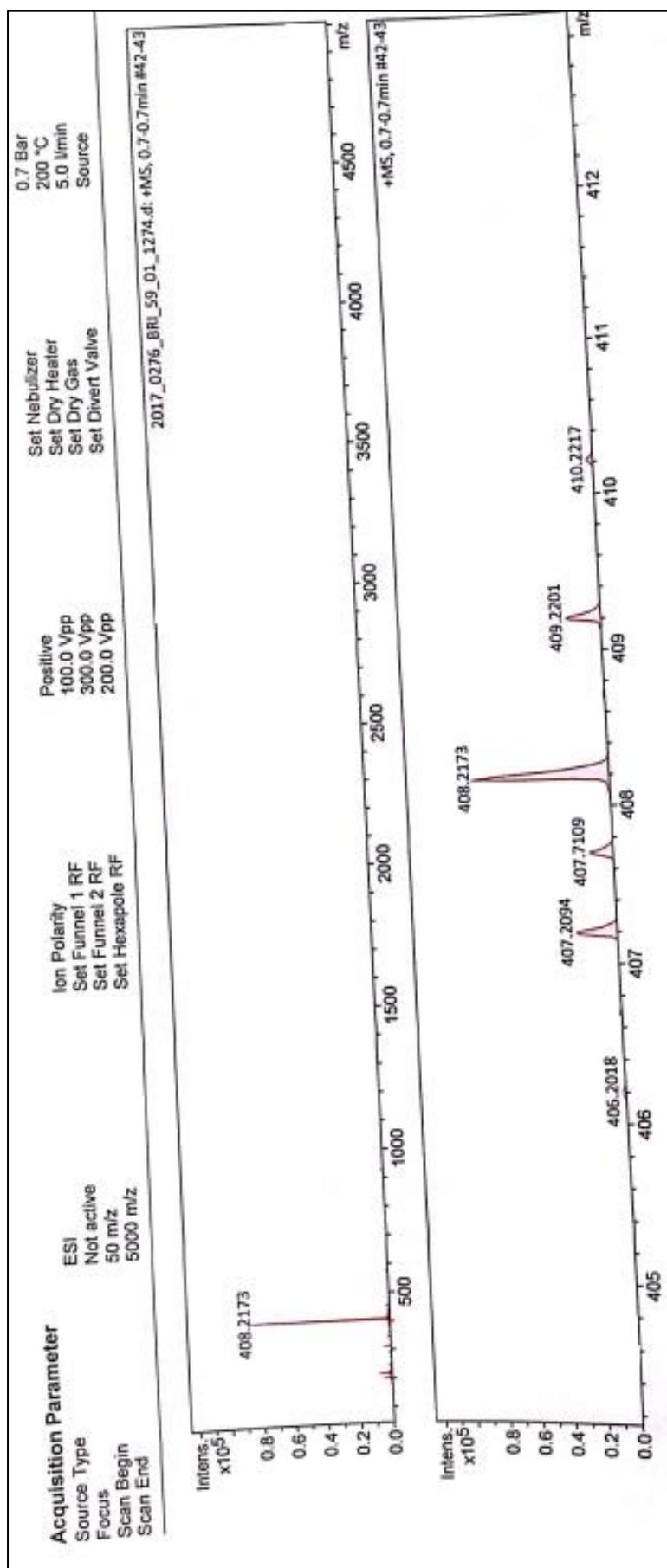
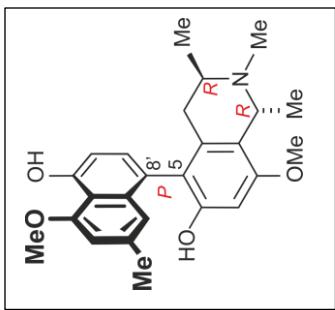
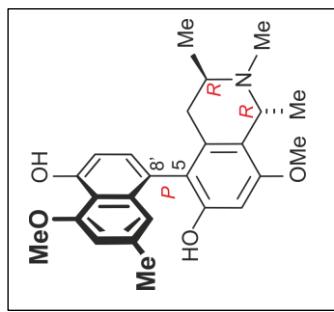
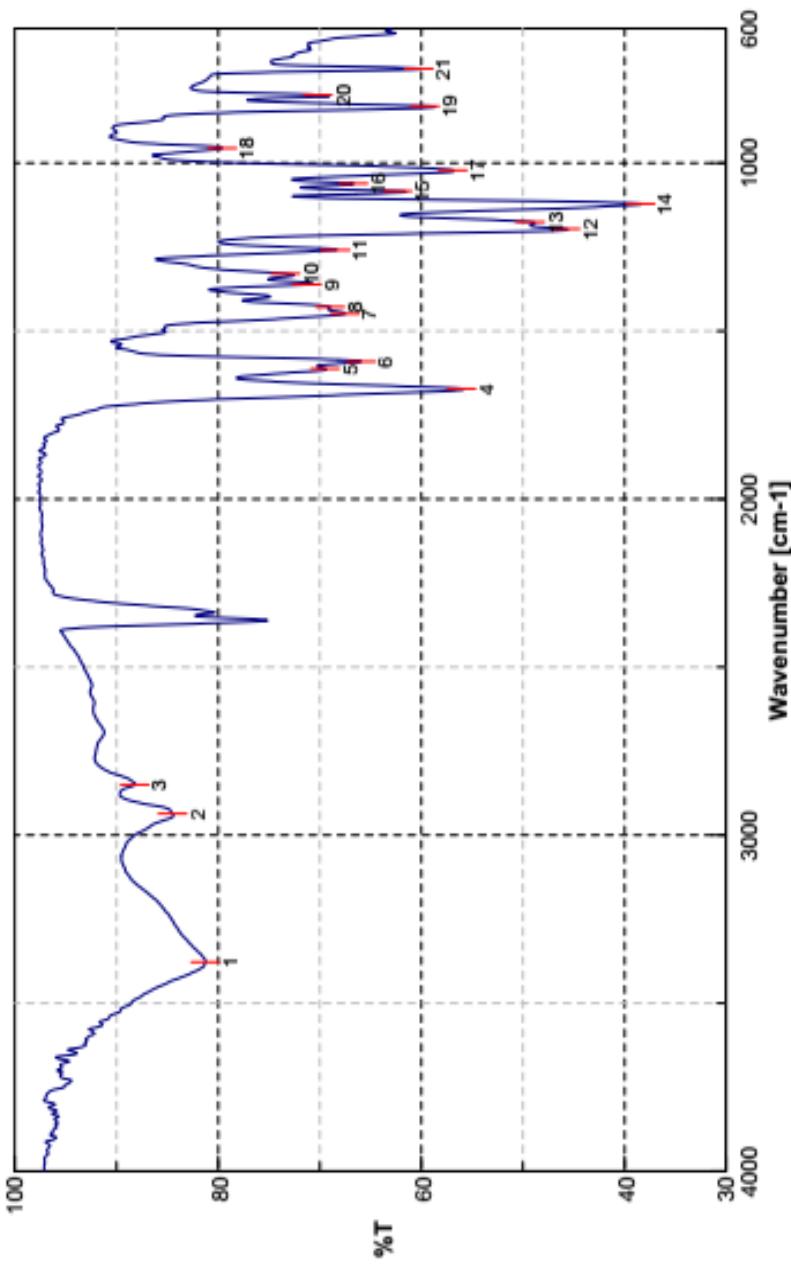


Figure S8. HRESIMS spectrum of ancistrolilikokine A₂ (**13**).



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7	1449.24	67.5357	8	1428.03	68.9889	9	1361.5	71.2638			
10	1329.68	73.3948	11	1259.29	68.4727	12	1196.61	45.8123			
13	1175.4	49.2778	14	1121.4	38.4301	15	1083.8	62.36			
16	1061.62	66.7002	17	1022.09	56.9165	18	956.52	79.6228			
19	831.169	59.643	20	797.421	70.2012	21	719.318	60.264			

Figure S9. IR spectrum of ancistrolilikokine A₂ (**13**).

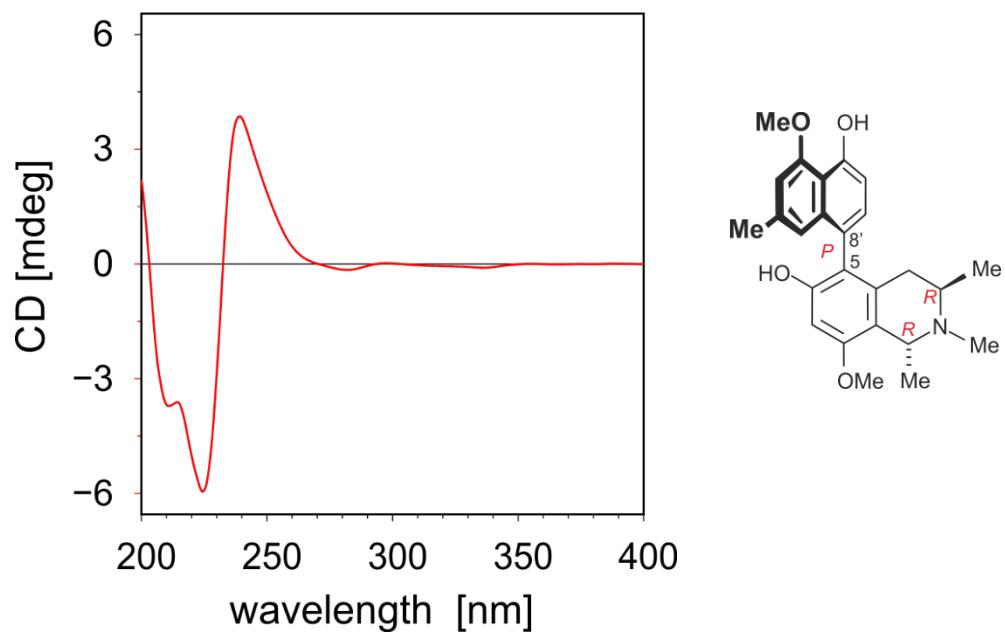
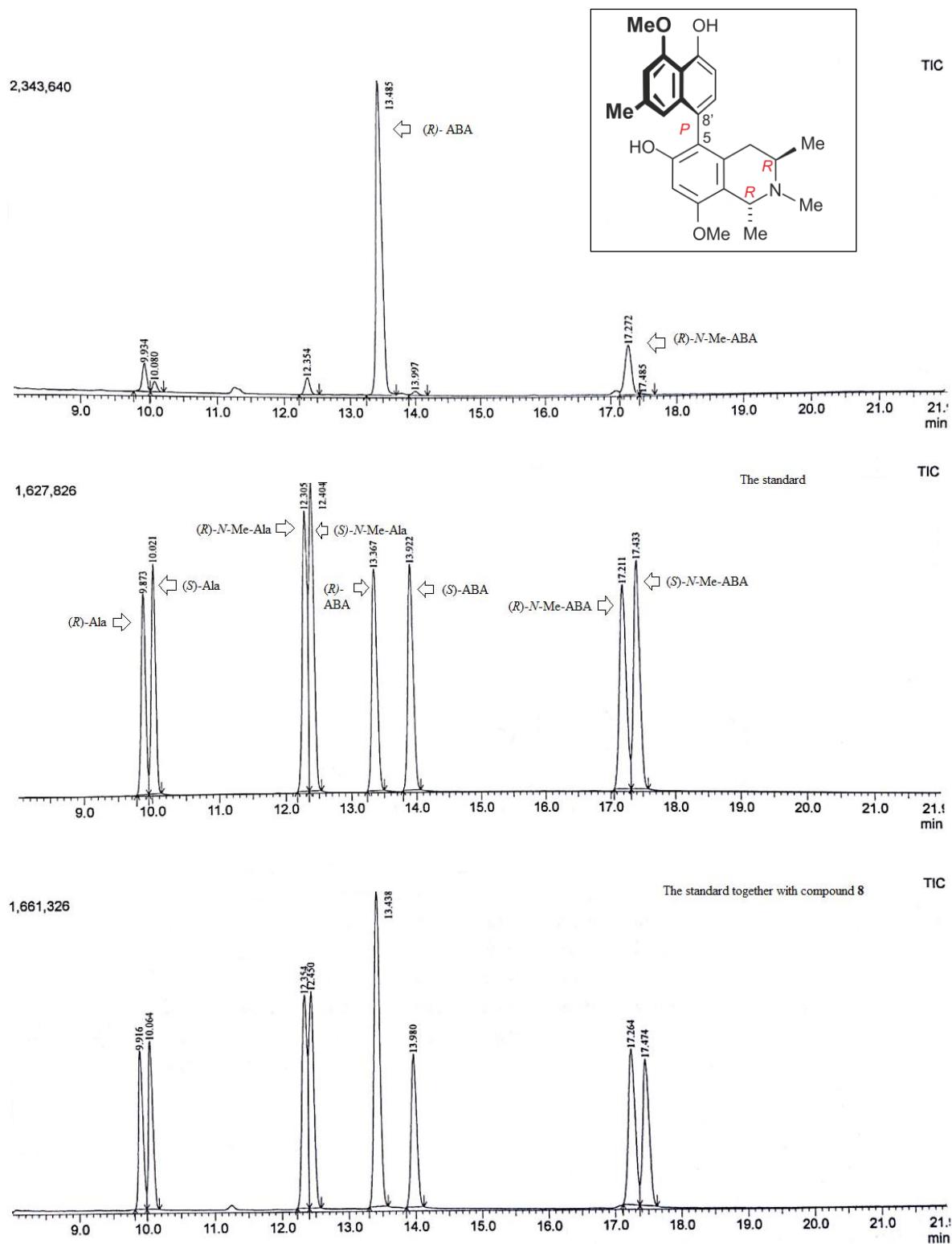


Figure S10. ECD spectrum of ancistrolilikokine A₂ (**13**).



Ala = Alanine

N-Me-Ala = *N*-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = *N*-Methyl-3-aminobutyric acid

Figure S11. Oxidative degradation products of ancistrolikokine A₂ (**13**).

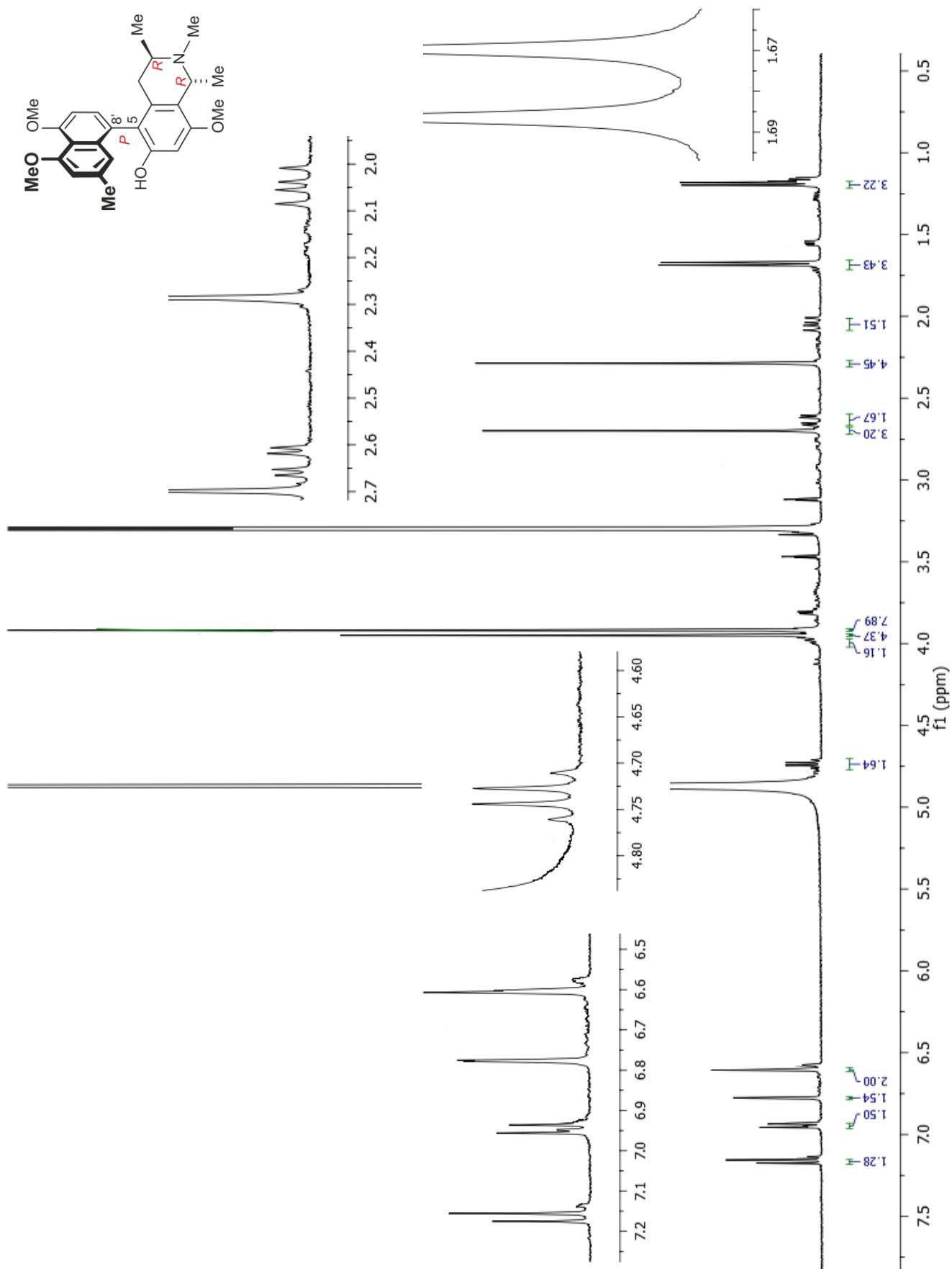


Figure S12. ^1H NMR spectrum of ancistrolikokine A₃ (**14**).

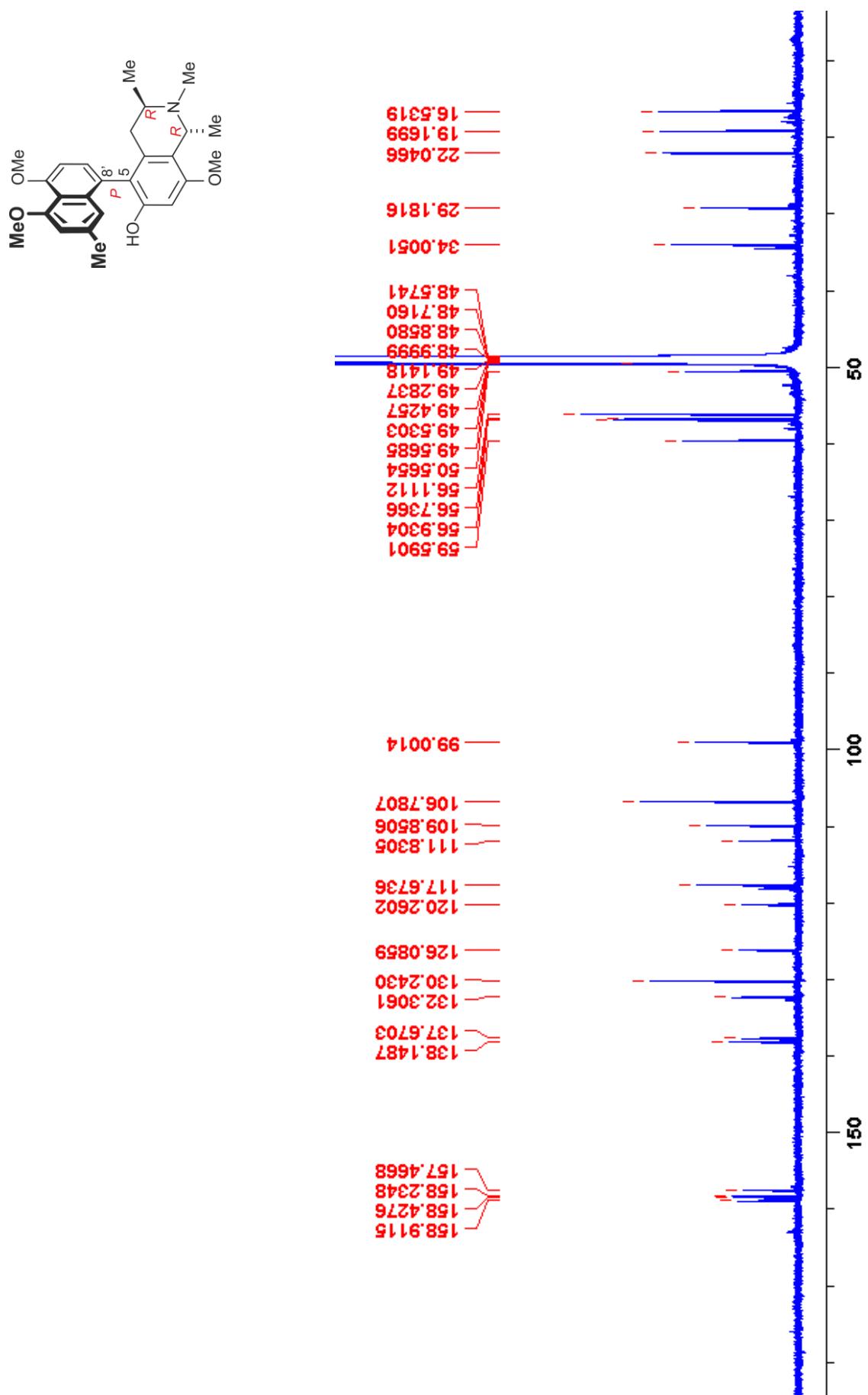


Figure S13. ^{13}C NMR spectrum of ancistrolilikokine A₃ (**14**).

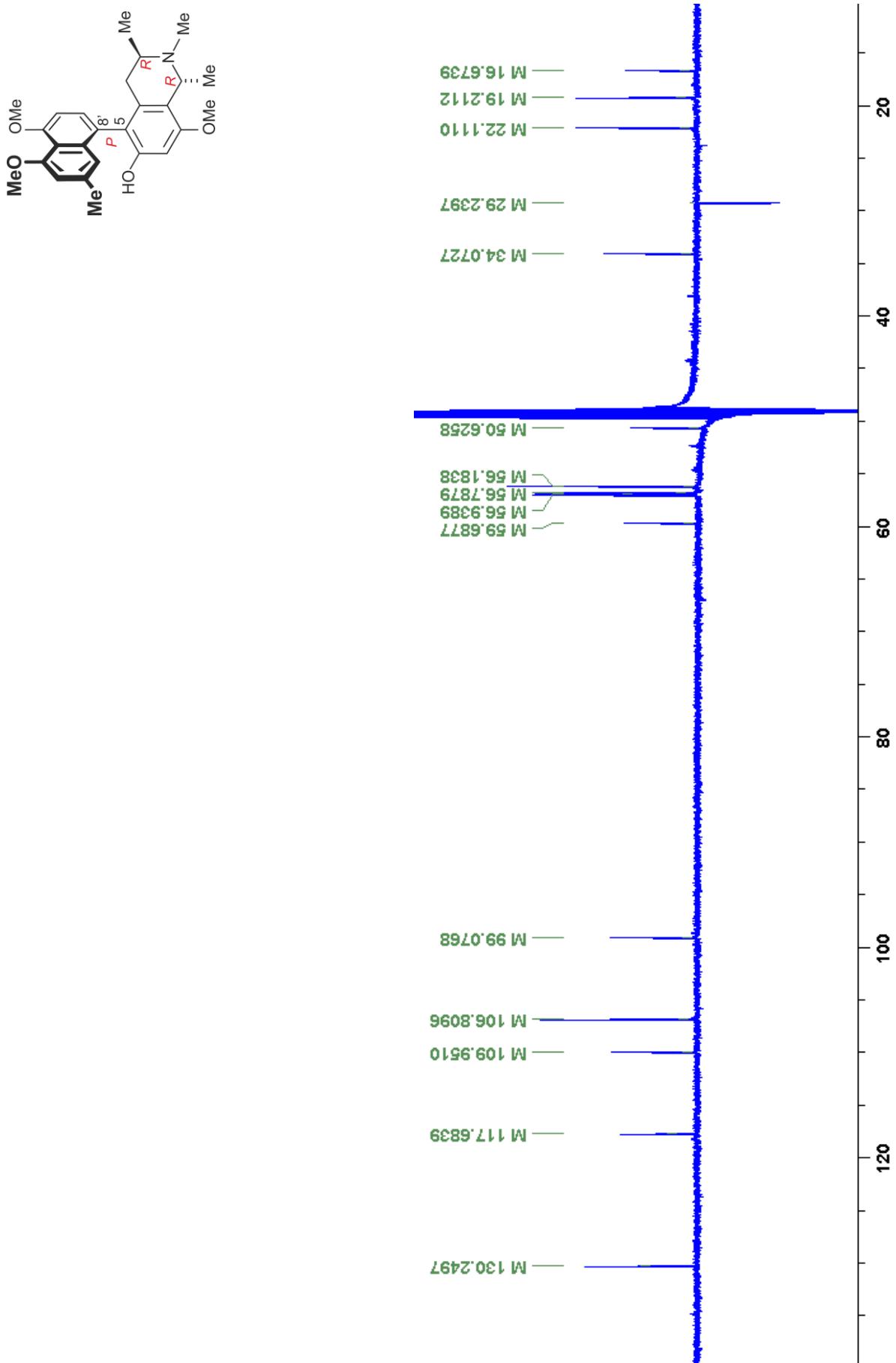


Figure S14. ¹³C DEPT spectrum of ancistrolilikokine A₃ (**14**).

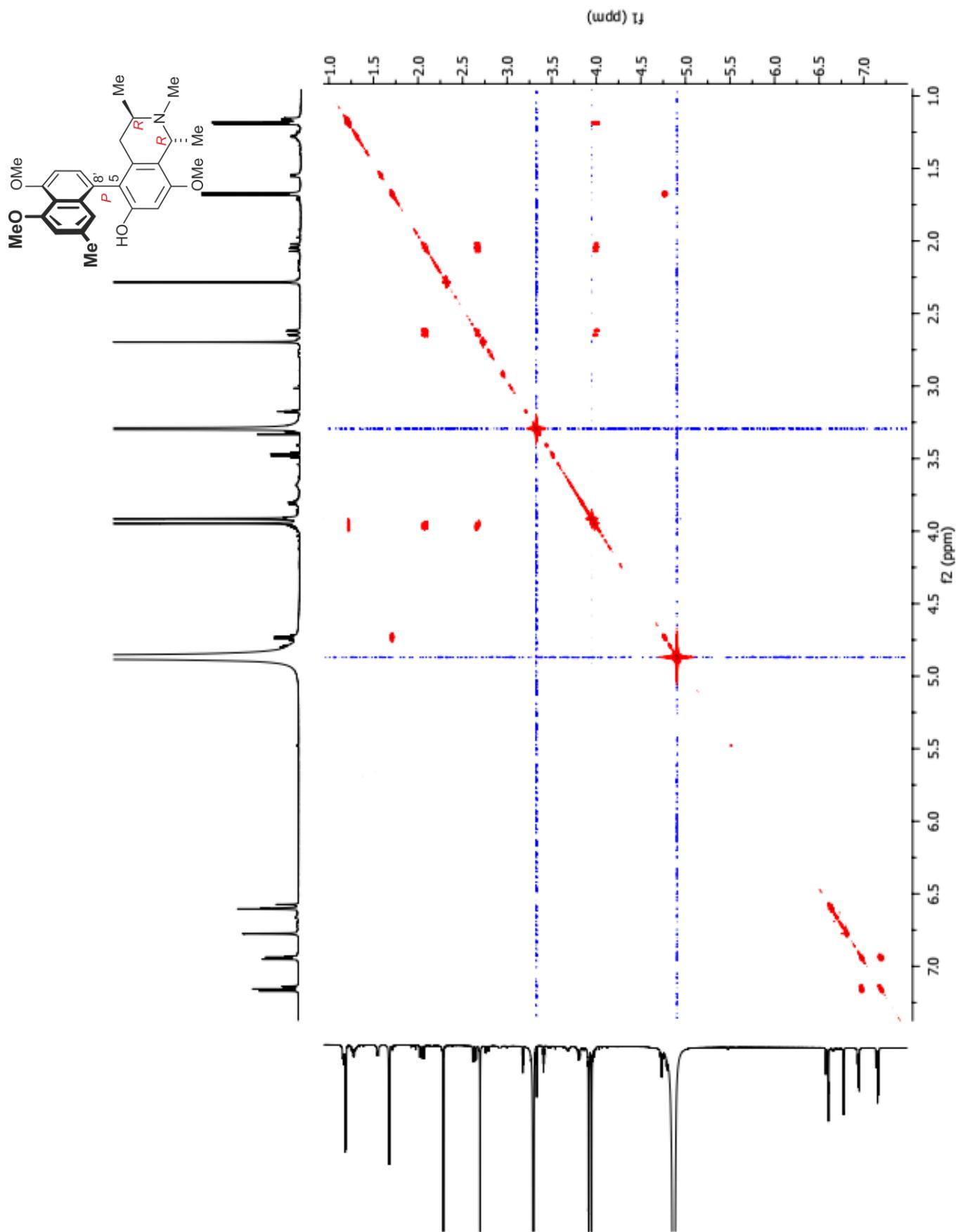


Figure S15. COSY spectrum of ancistrolilikokine A₃ (**14**).

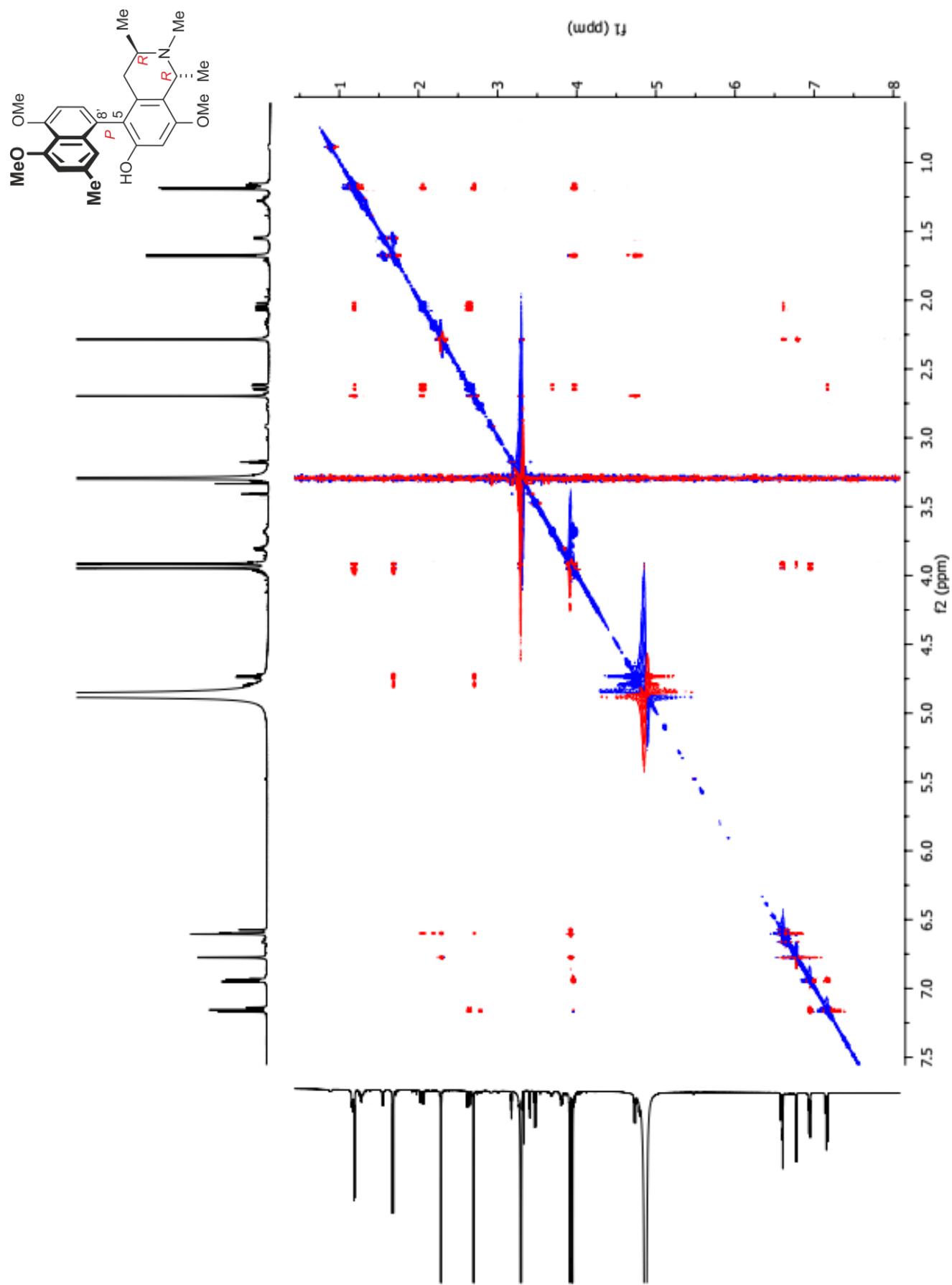


Figure S16. NOESY spectrum of ancistrolilikokine A₃ (**14**).

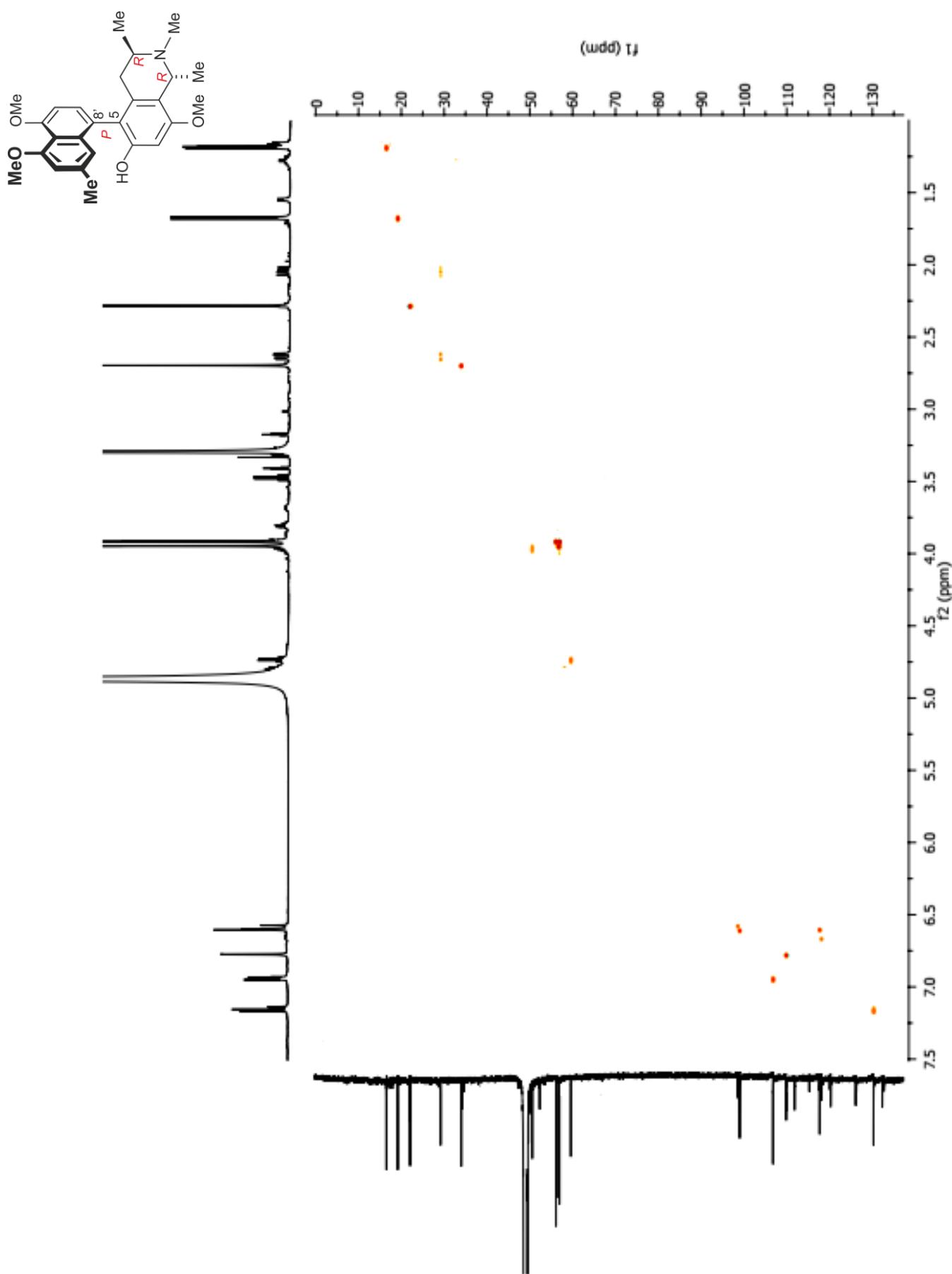


Figure S17. HSQC spectrum of ancistrolilikokine A₃ (**14**).

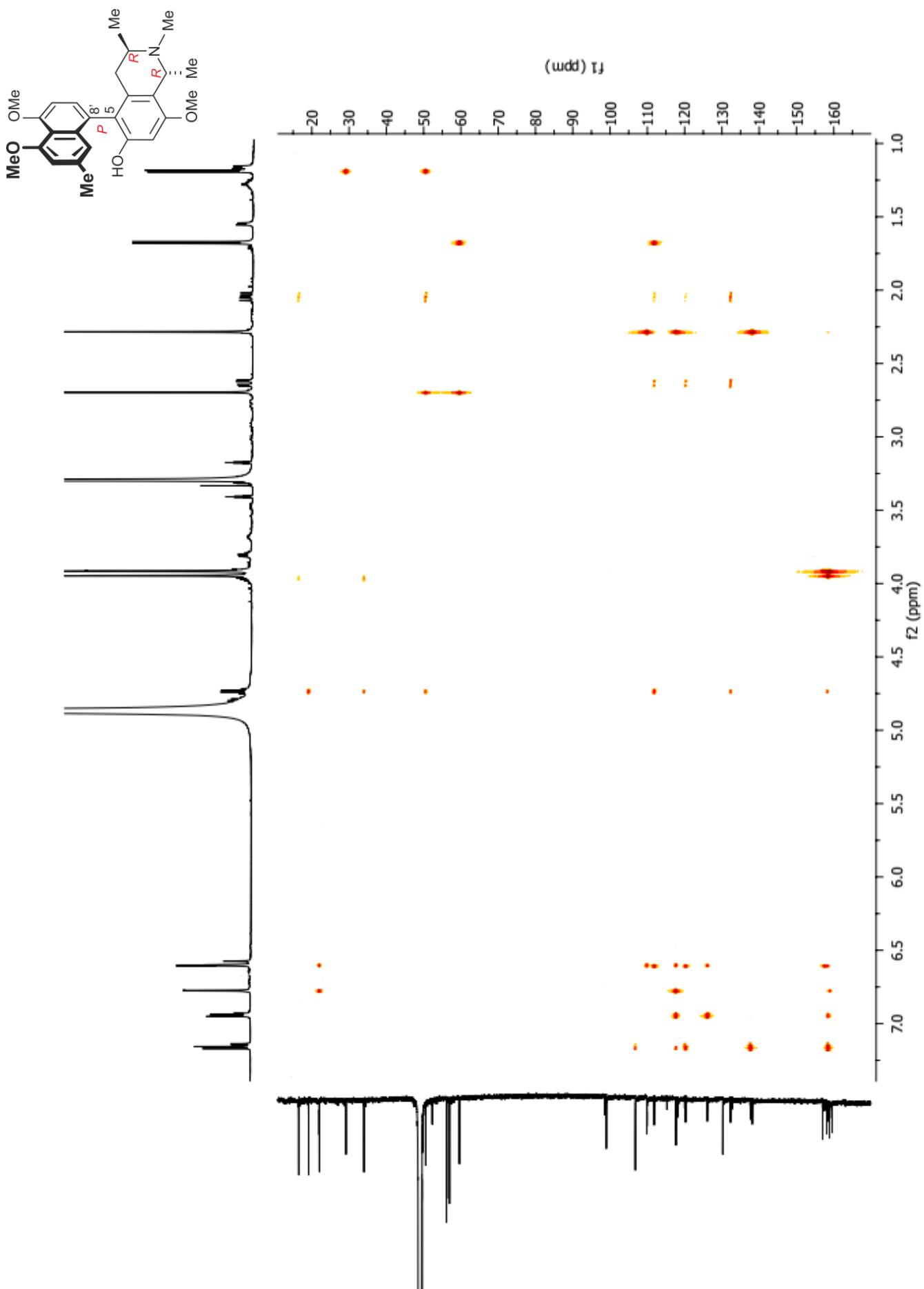


Figure S18. HMBC spectrum of ancistrolilikokine A₃ (**14**).

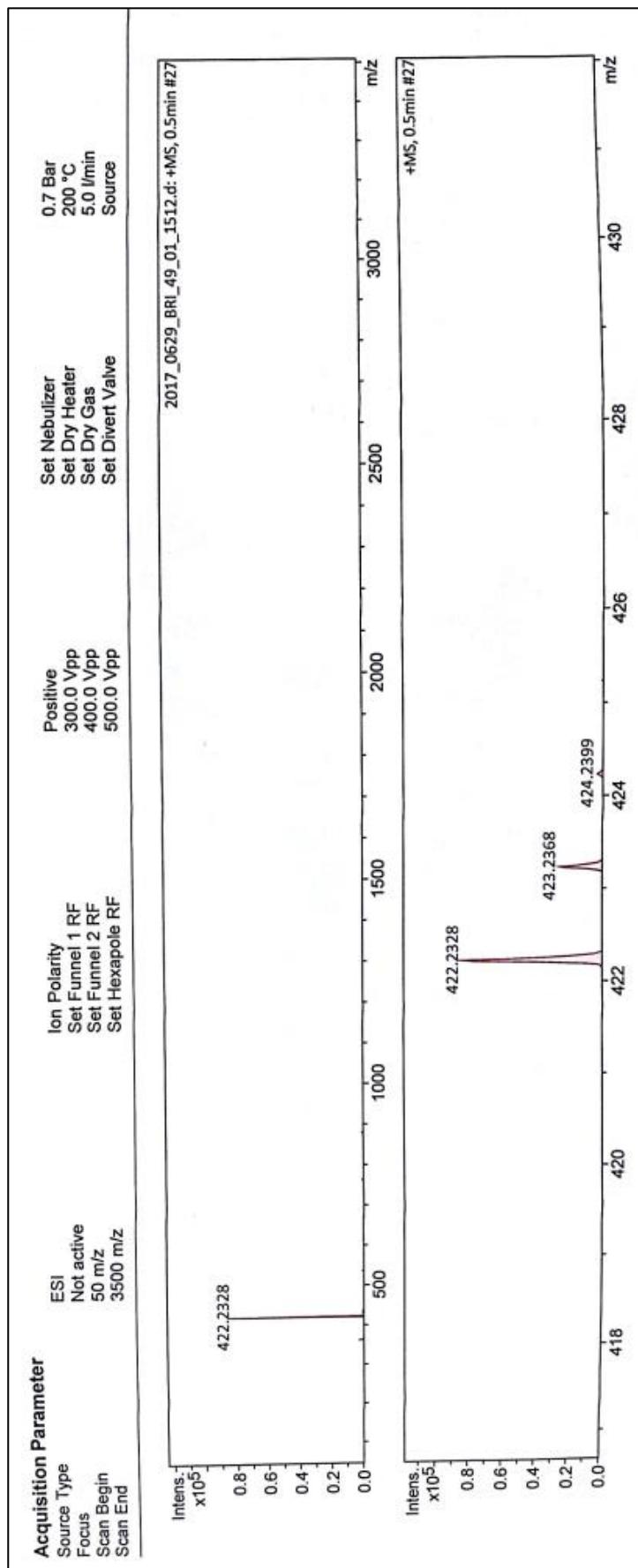
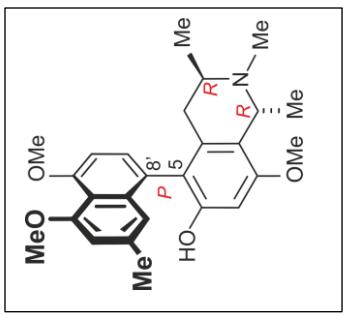
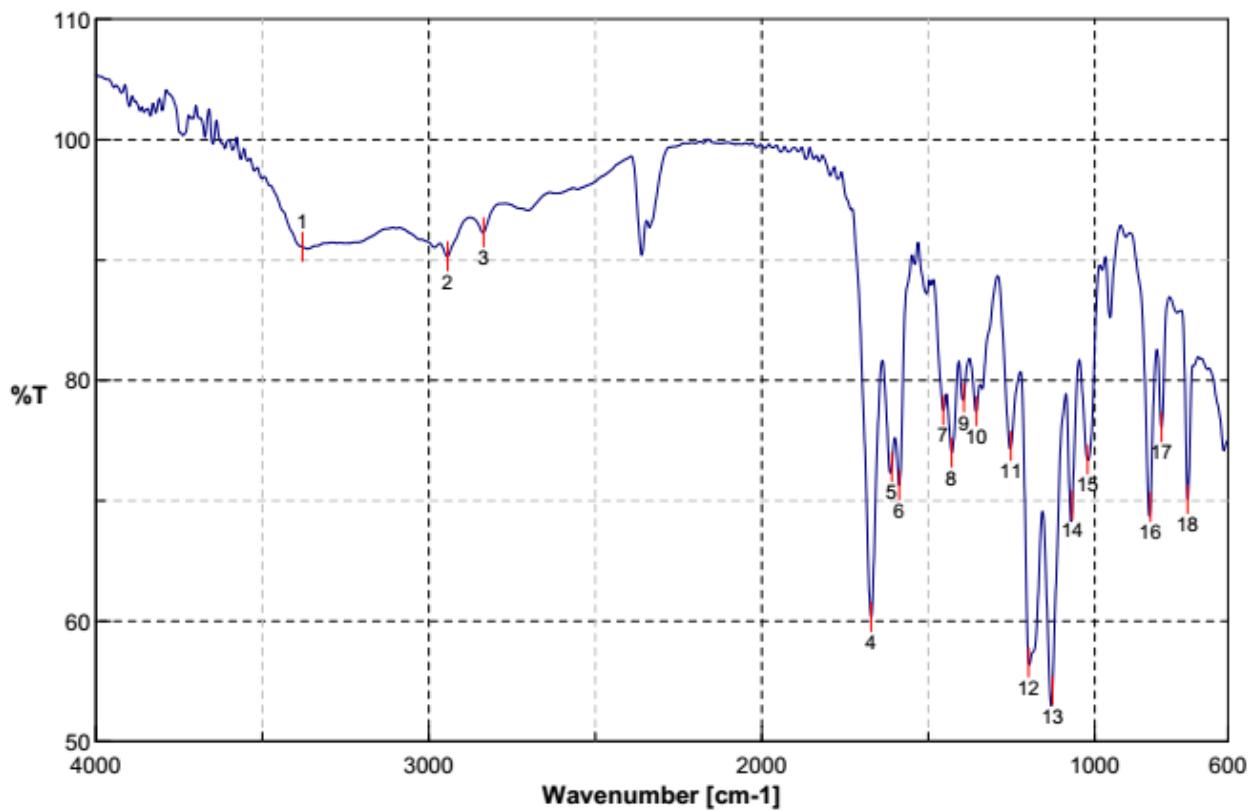
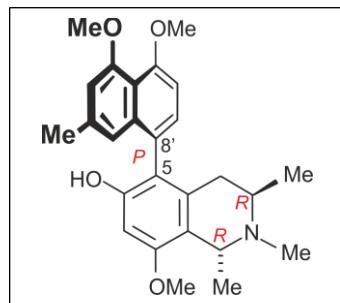


Figure S19. HRESI-MS spectrum of ancistrolikokine A₃ (**14**).



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 ON
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 29.03.2017 11:37
 Student
 Memory#2



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7	1455.03	77.5322	8	1429.96	74.0047	9	1393.32	78.5954
10	1355.71	77.4521	11	1251.58	74.5724	12	1198.54	56.5815
13	1127.19	54.2445	14	1067.41	69.6287	15	1022.09	73.4356
16	833.098	69.4919	17	799.35	76.1202	18	721.247	70.1632

Figure S20. IR spectrum of ancistrolikokine A₃ (**14**).

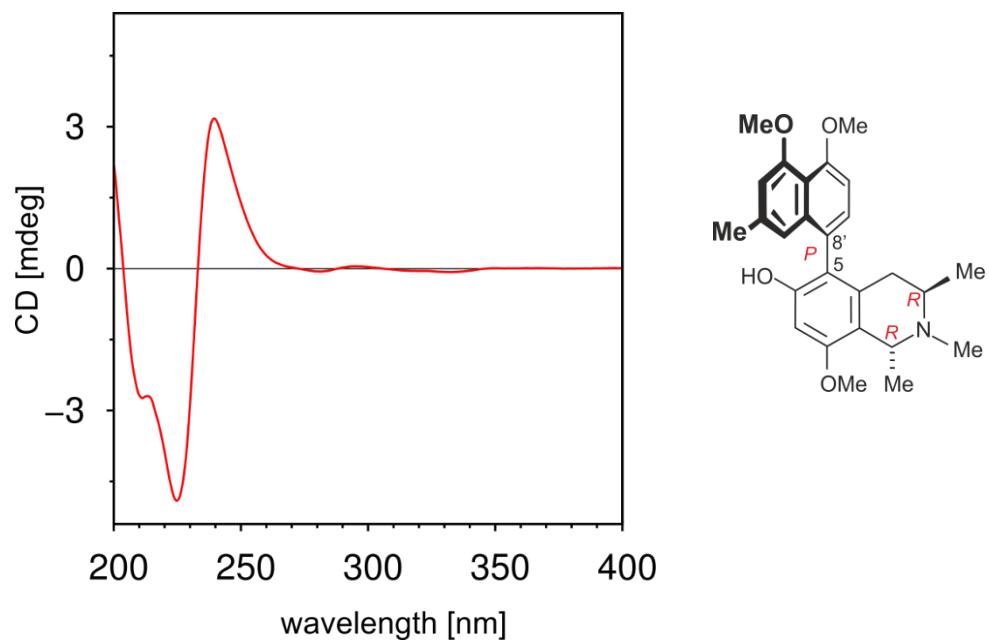
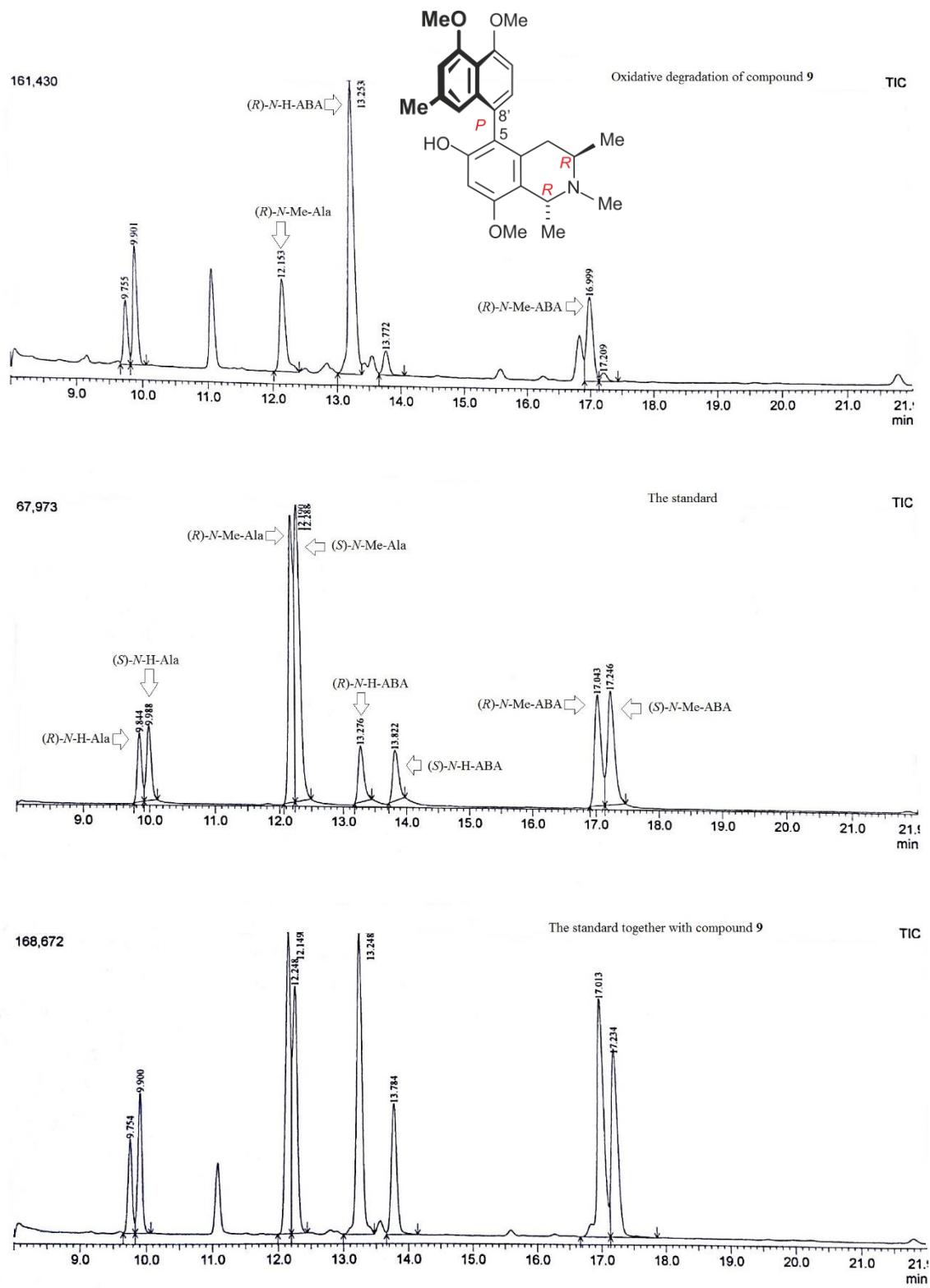


Figure S21. ECD spectrum of ancistrolilikokine A₃ (**14**).



Ala = Alanine

N-Me-Ala = N-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = N-Methyl-3-aminobutyric acid

Figure S22. Oxidative degradation products of ancistrolilikokine A₃ (**14**).

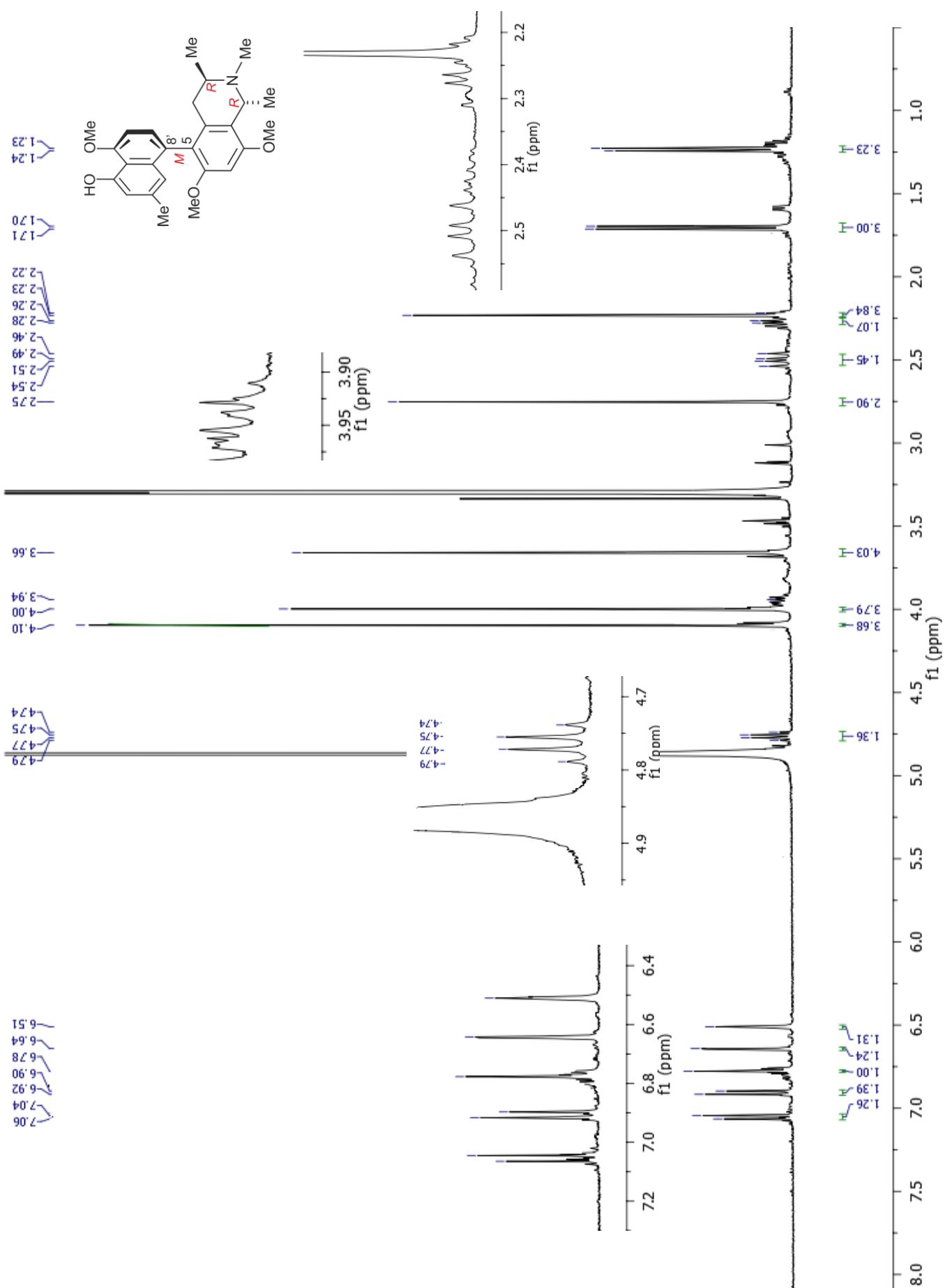


Figure S23. ^1H NMR spectrum of ancistrolikokine C₂ (**5**).

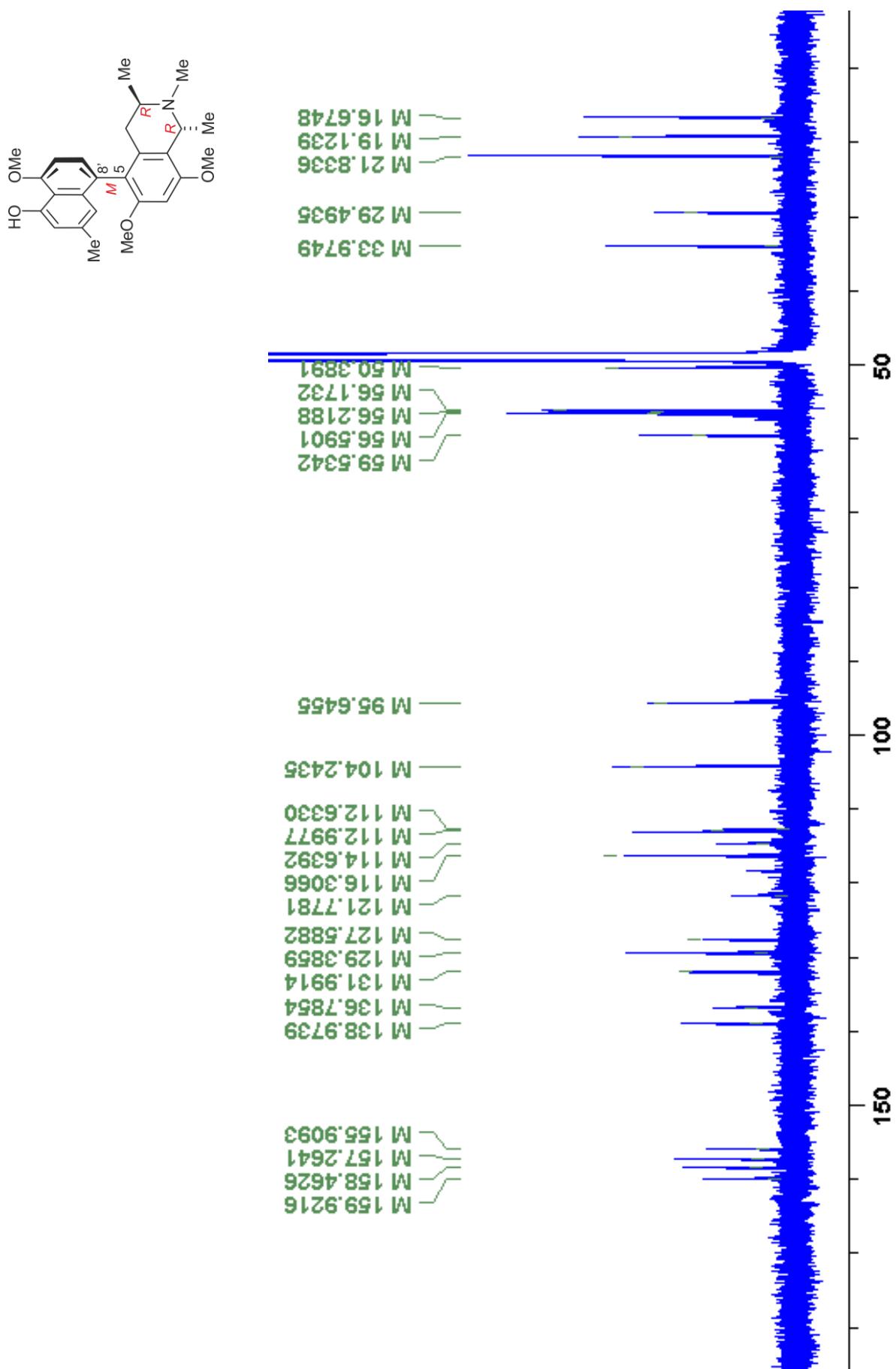


Figure S24. ^{13}C NMR spectrum of ancistrolilikokine C₂ (**5**).

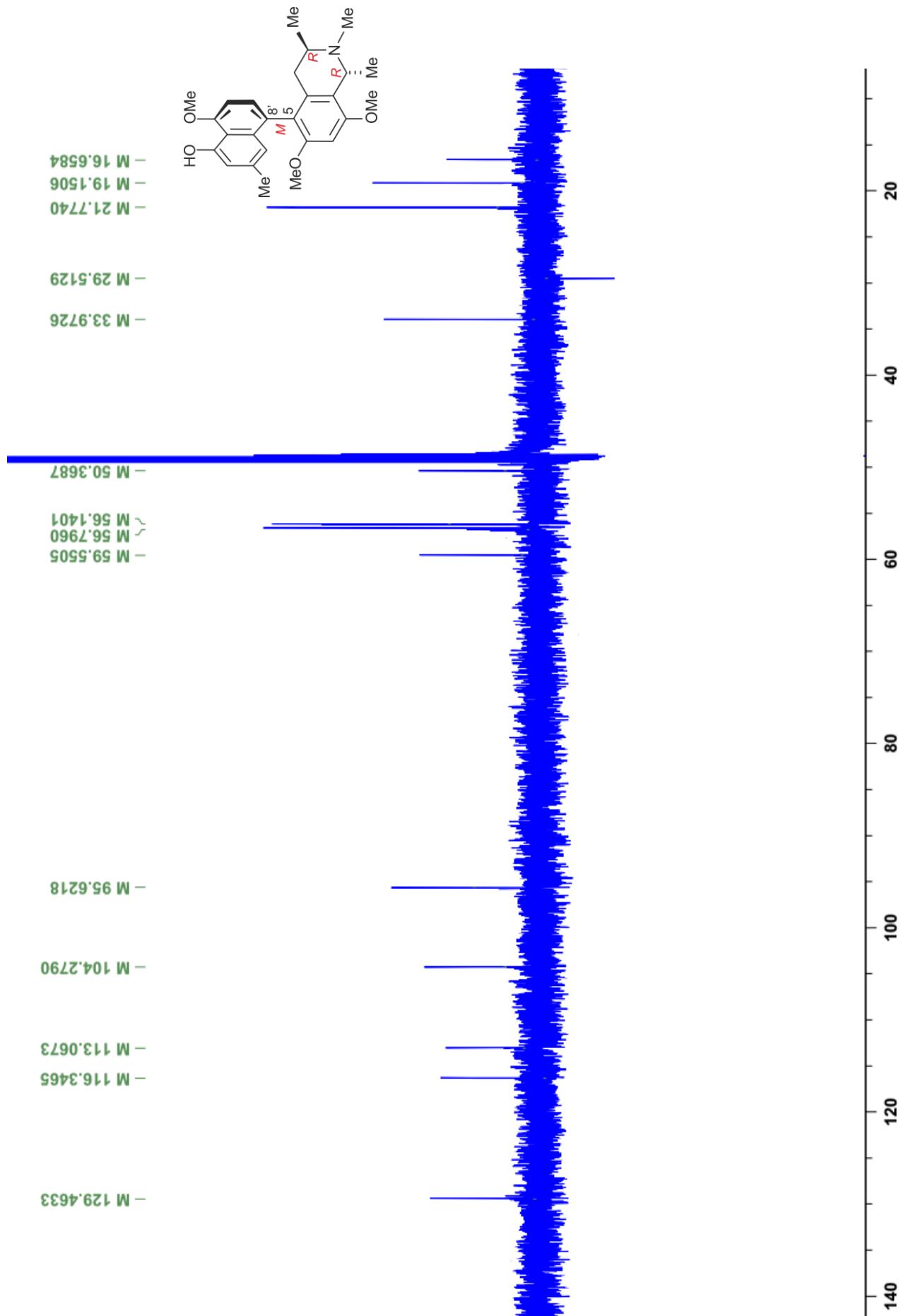


Figure S25. ^{13}C DEPT spectrum of ancistrolilikokine C_2 (**5**).

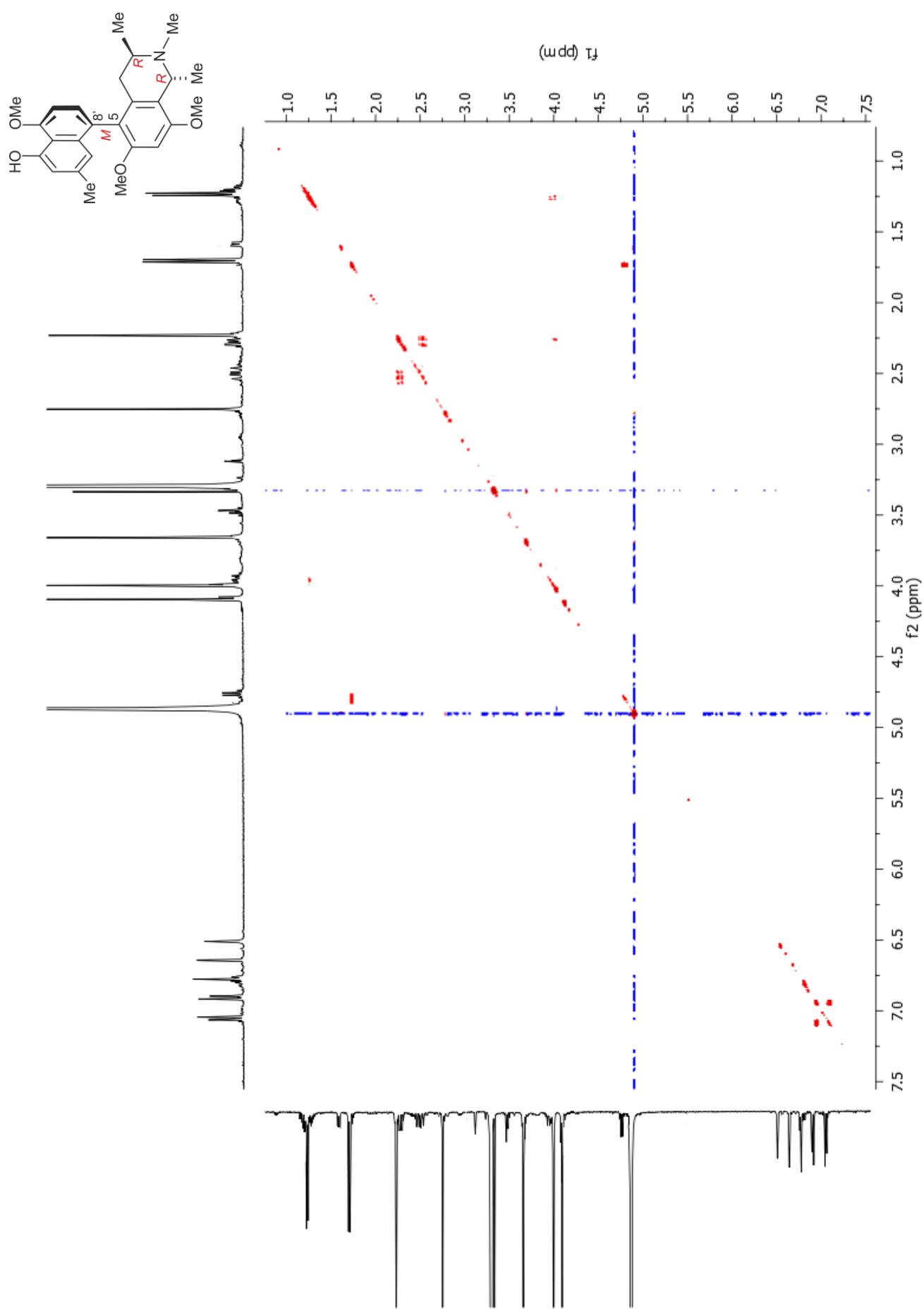


Figure S26. COSY spectrum of ancistrolikokine C₂ (**5**).

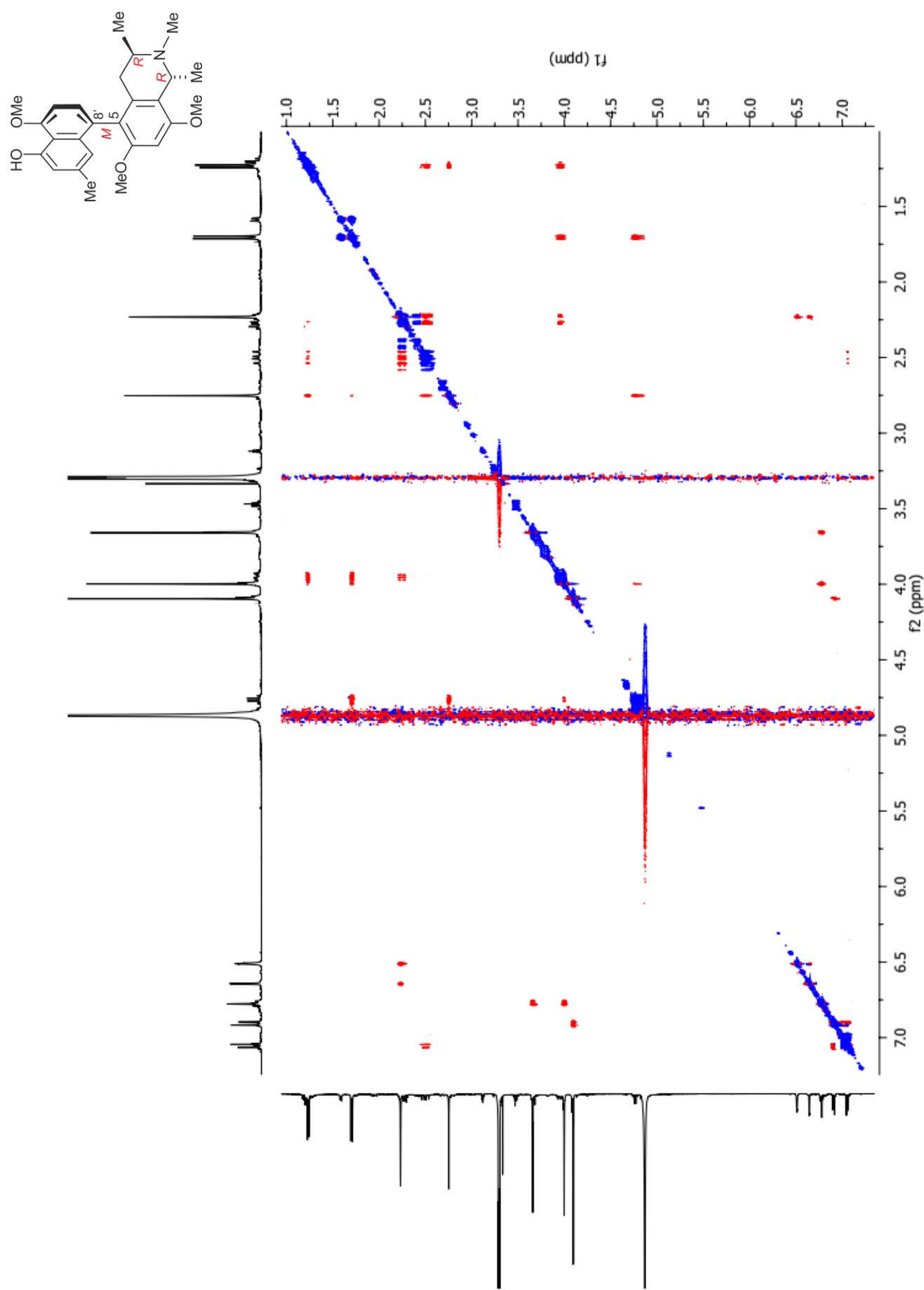


Figure S27. NOESY spectrum of ancistrolilikokine C₂ (**5**).

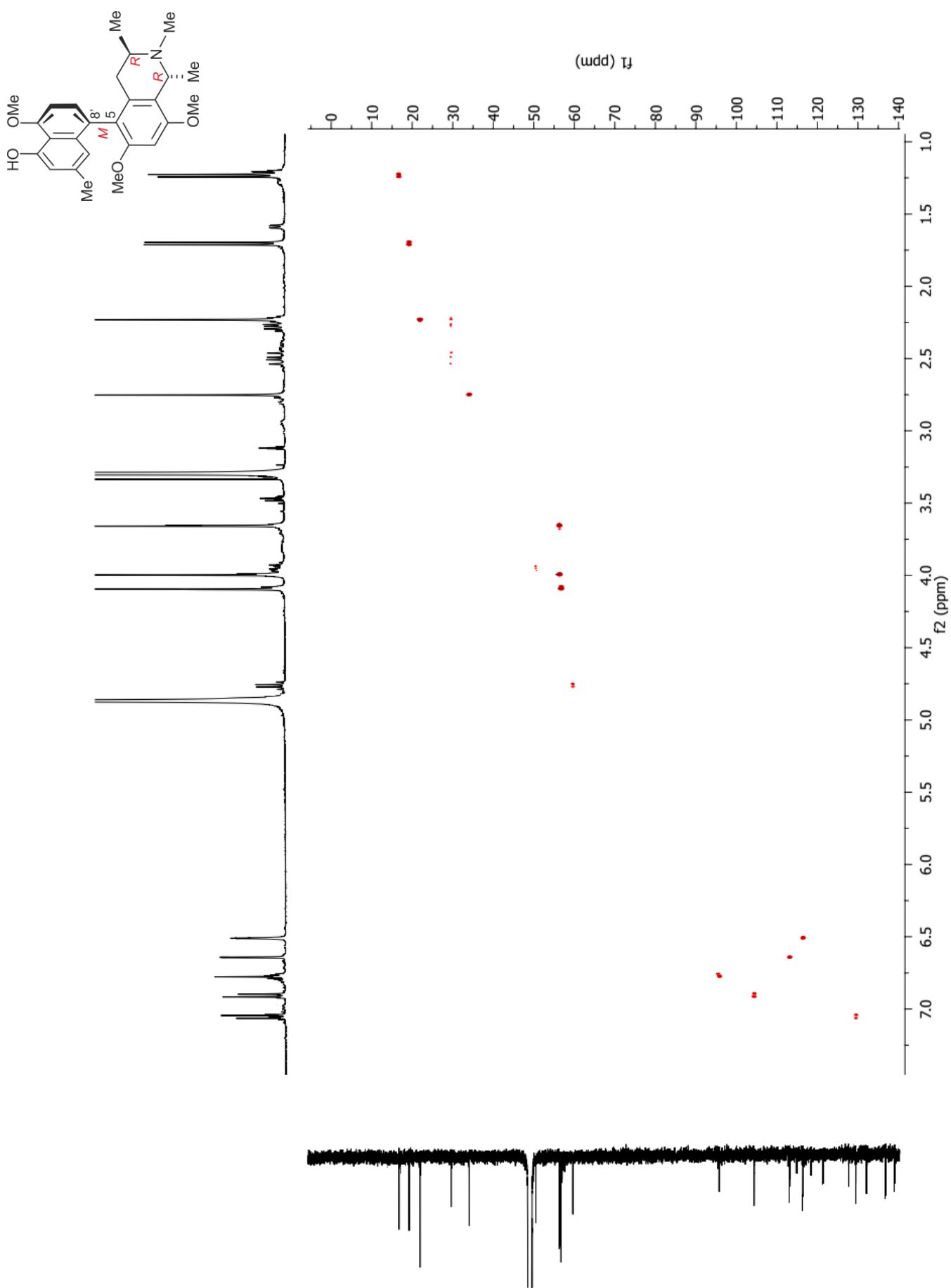


Figure S28. HSQC spectrum of ancistrolilikokine C₂ (**5**).

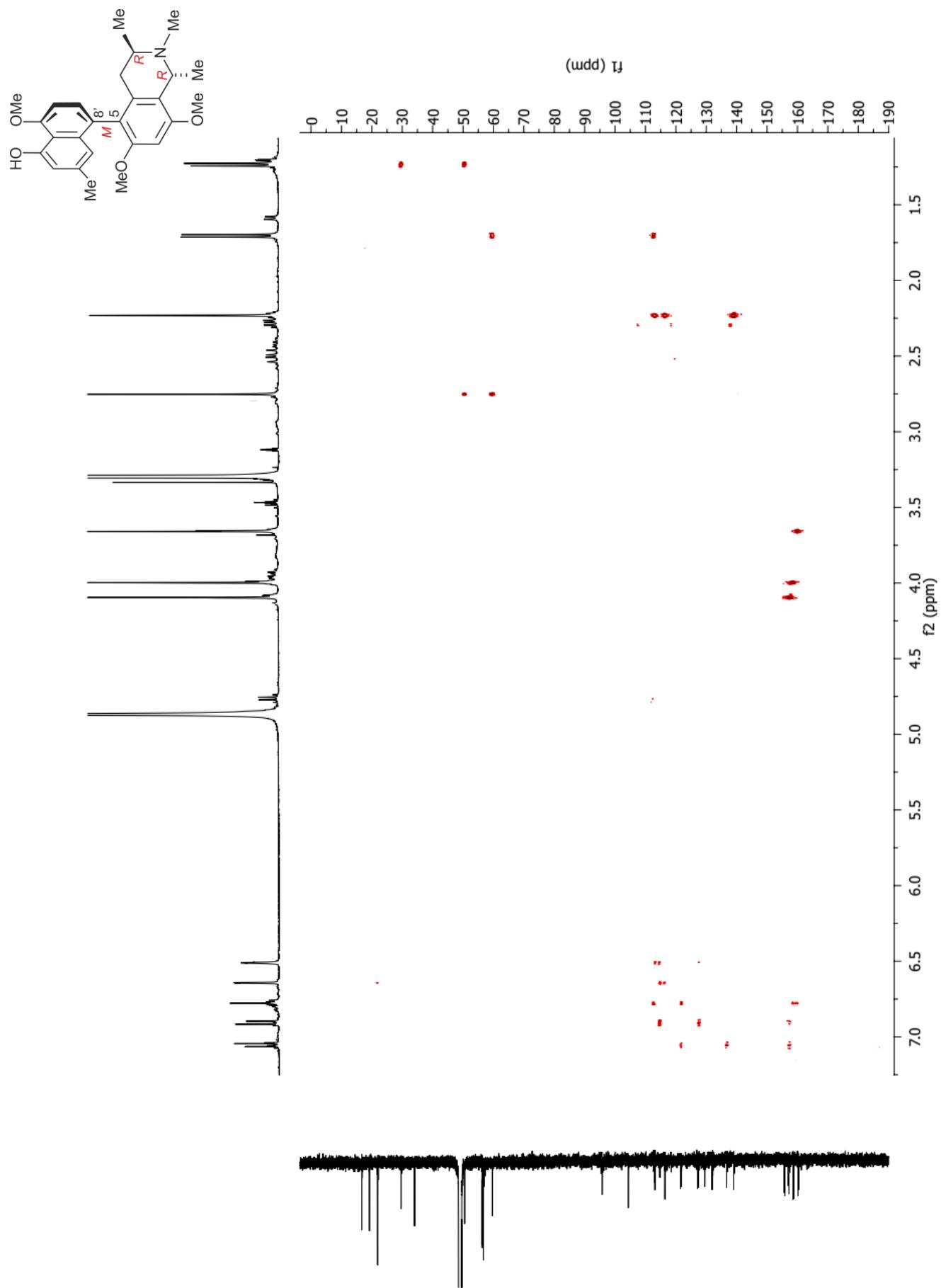


Figure S29. HMBC spectrum of ancistrolilikokine C₂ (**5**).

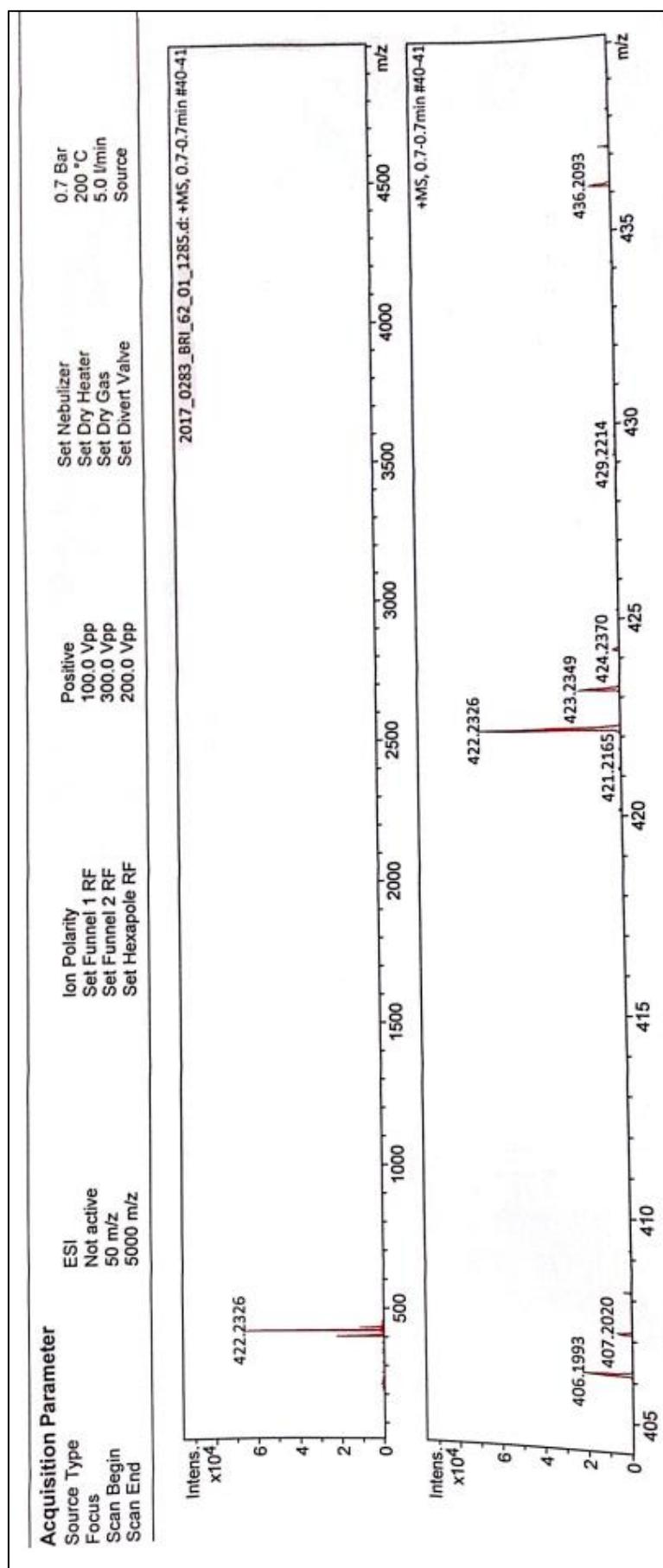
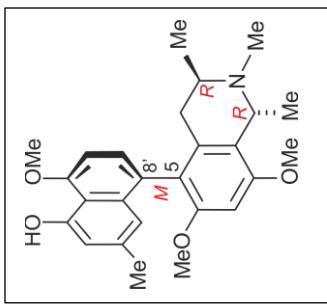
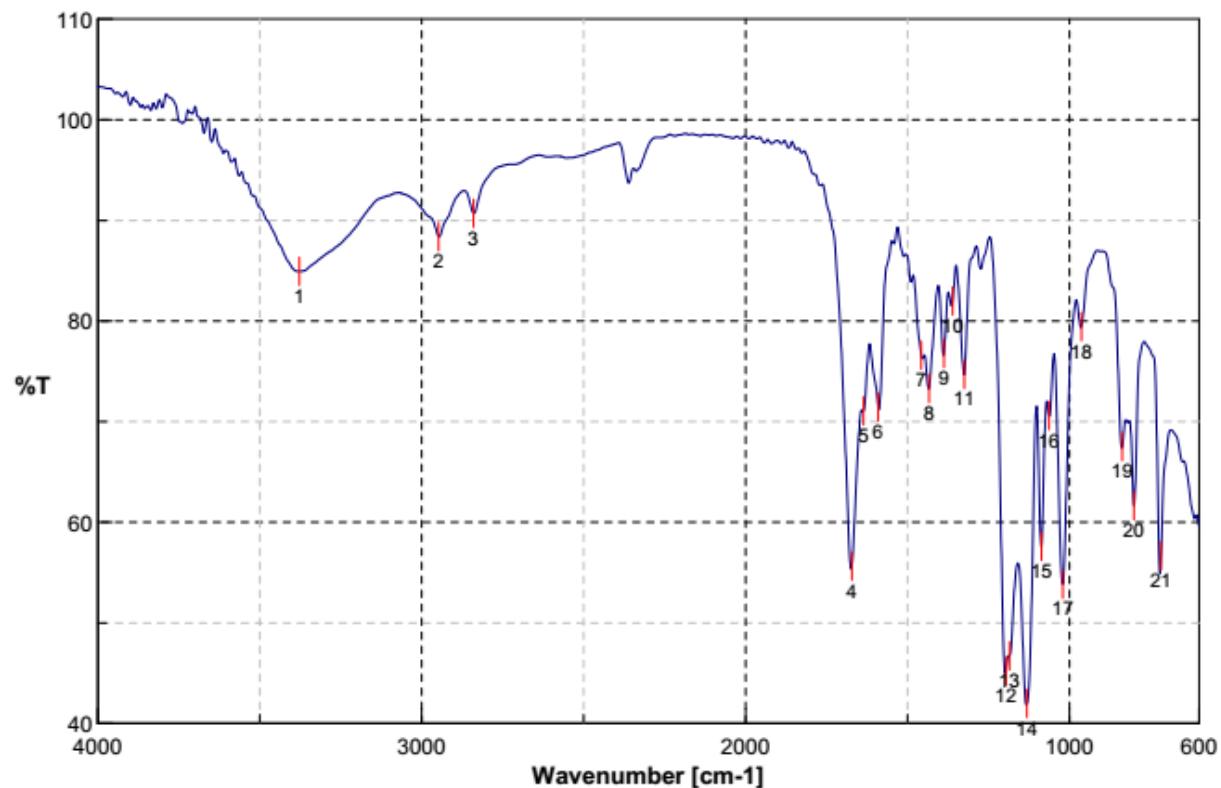
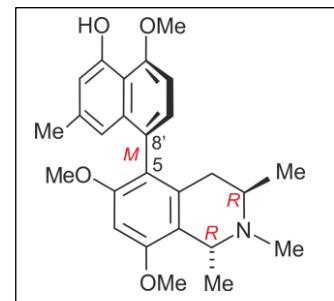


Figure S30. HRESI-MS spectrum of ancistrolilikokine C₂ (**5**).



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 Gain Auto (2)
 Scanning Speed Auto (2 mm/sec)
 Date/Time 29.03.2017 10:37
 Update 29.03.2017 13:04
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4	1671.98	55.6267	5	1636.3	71.0629	6	1590.99	71.4408
7	1457.92	76.6202	8	1433.82	73.2977	9	1387.53	76.782
10	1360.53	81.9906	11	1324.86	74.6841	12	1196.61	45.2105
13	1185.04	46.7206	14	1131.05	42.005	15	1086.69	57.6038
16	1063.55	70.6183	17	1021.12	53.8294	18	963.269	79.4352
19	836.955	67.5177	20	801.278	61.6416	21	717.39	56.691

Figure S31. IR spectrum of ancistrolilikokine C₂ (**5**).

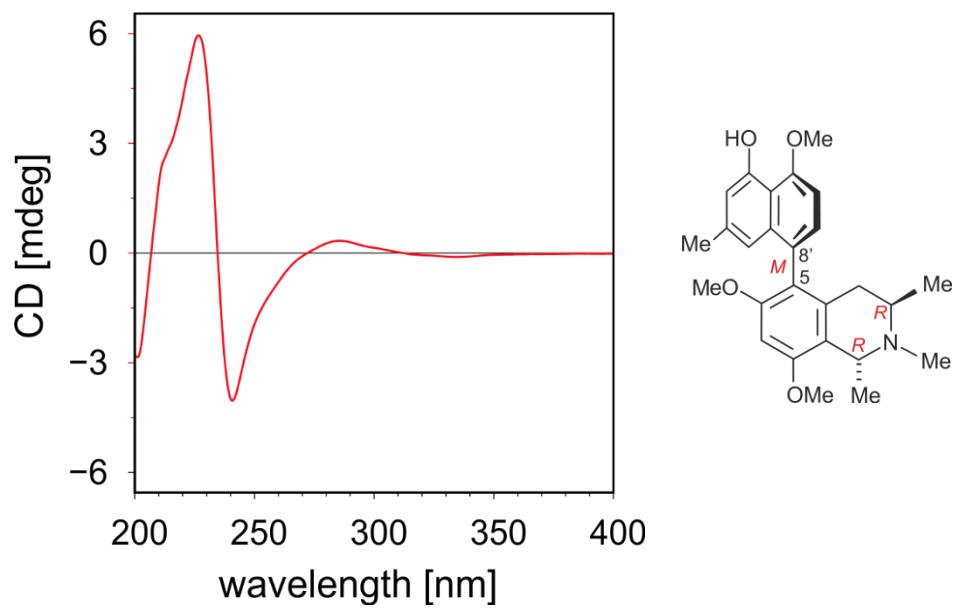
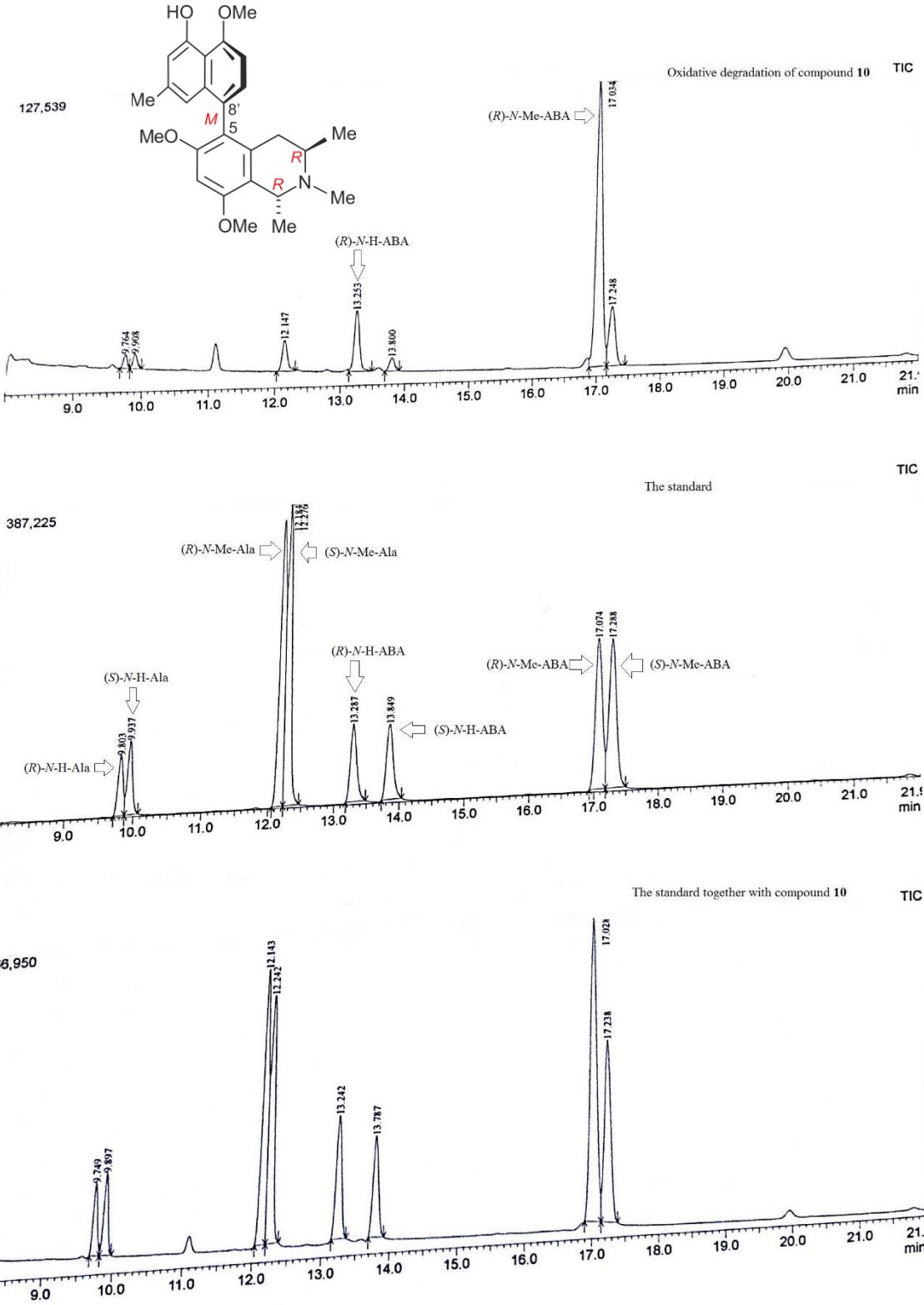


Figure S32. ECD spectrum of ancistrolilikokine C₂ (**5**).



Ala = Alanine

N-Me-Ala = N-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = N-Methyl-3-aminobutyric acid

Figure S33. Oxidative degradation products of ancistrolilikokine C₂ (**5**).

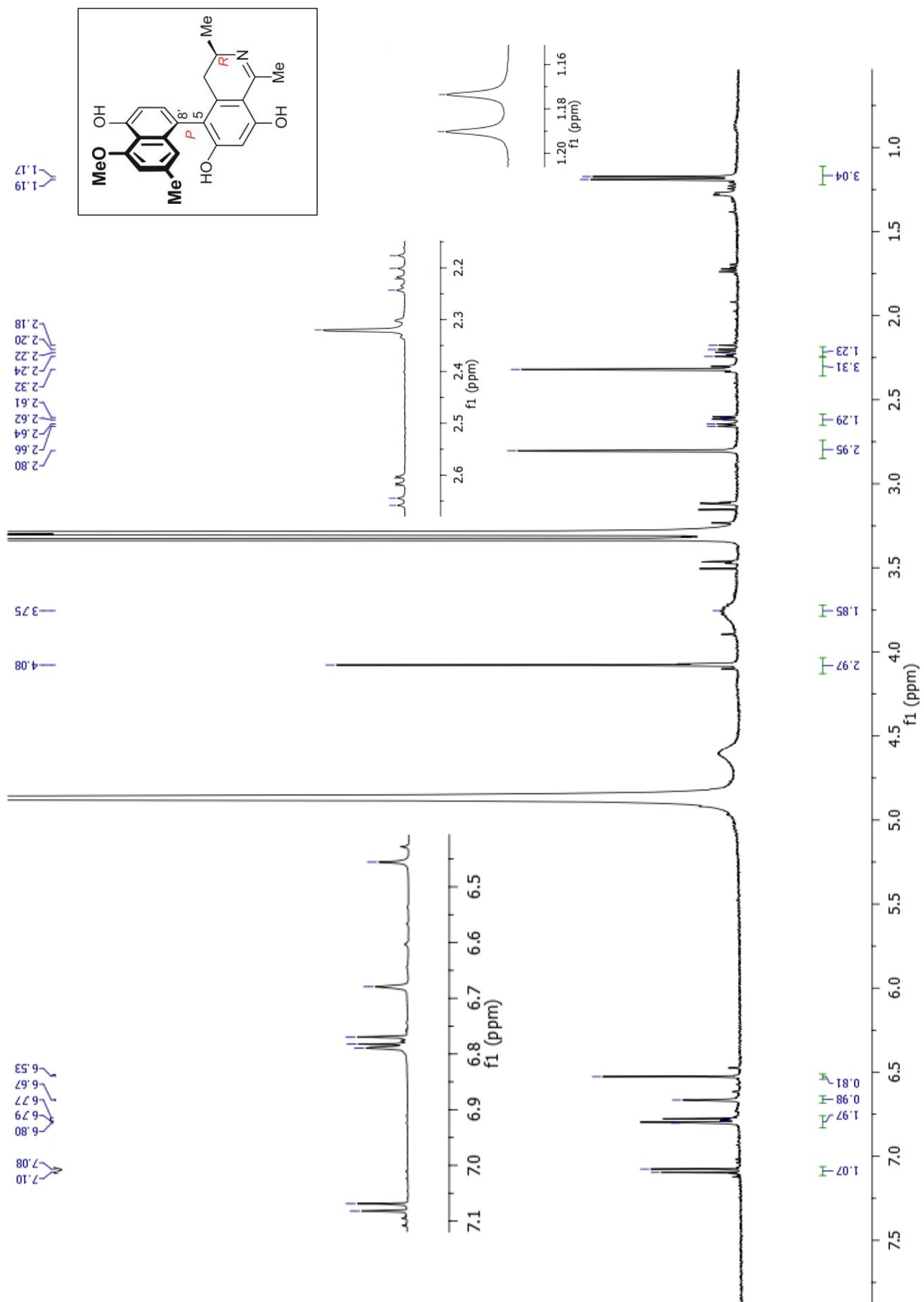


Figure S34. ^1H NMR spectrum of ancistrolikokine E (**9**).

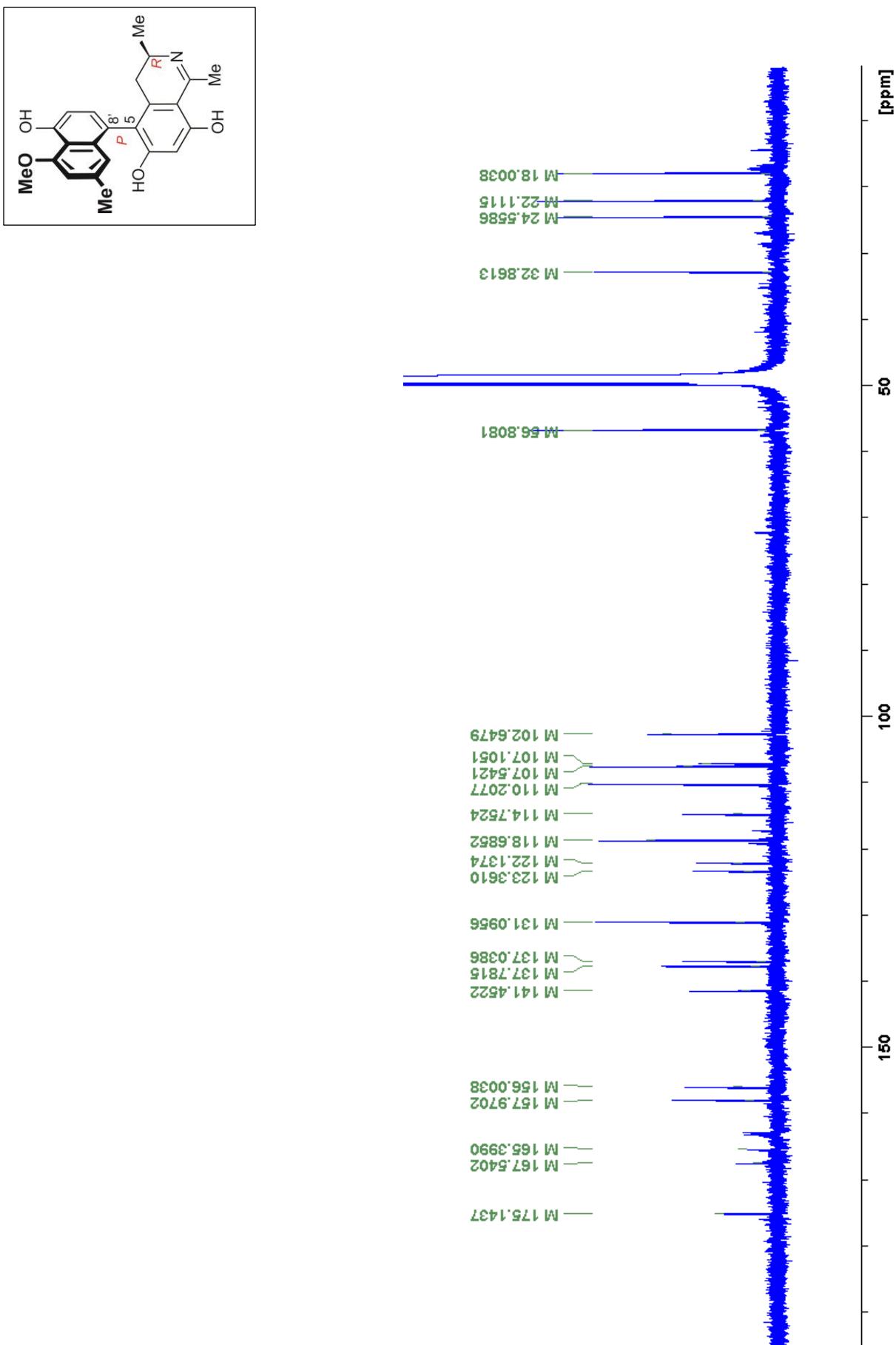


Figure S35. ^{13}C NMR spectrum of ancistrolilikokine E (**9**).

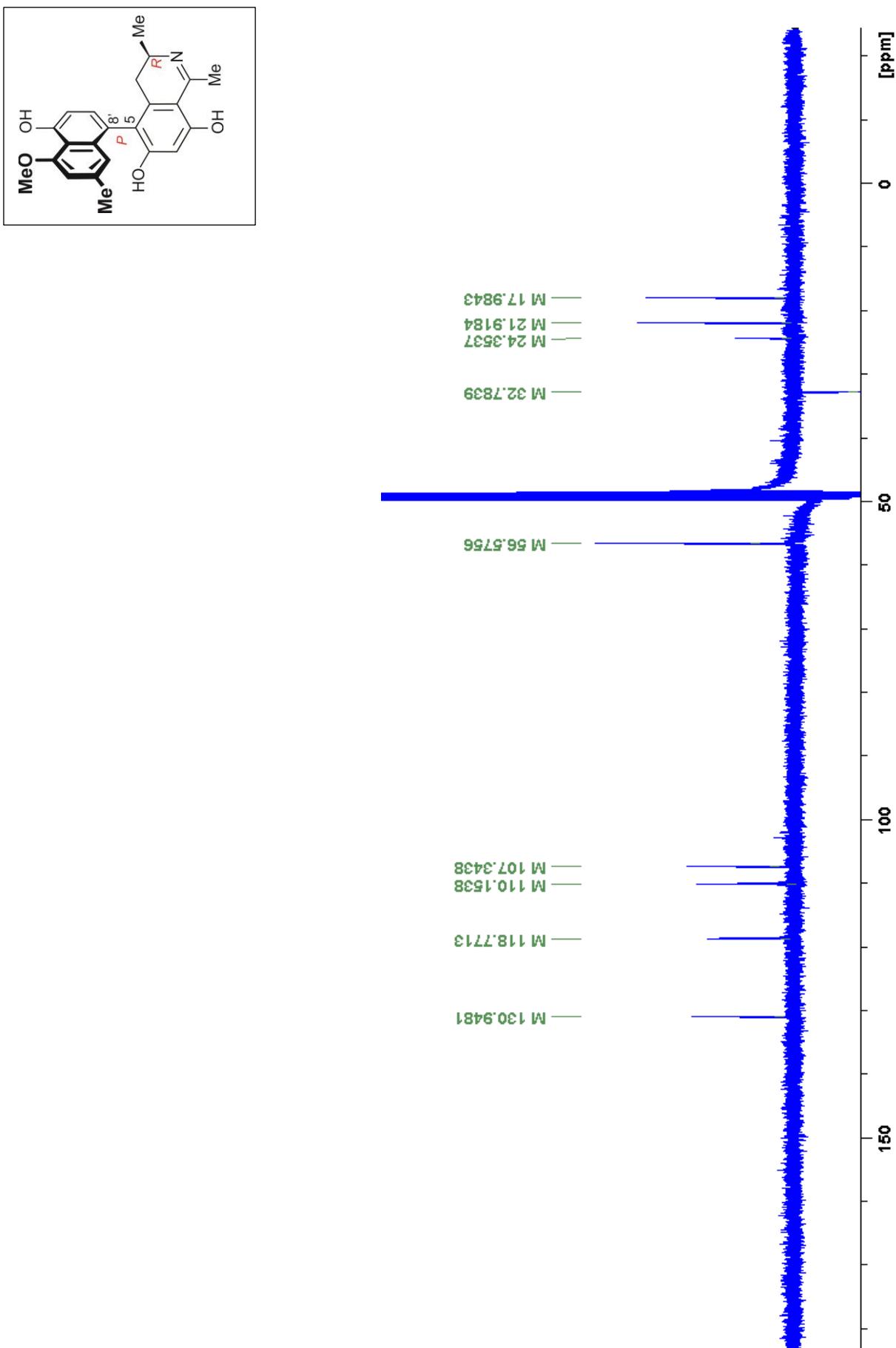


Figure S36. ^{13}C DEPT NMR spectrum of ancistrolilikokine E (**9**).

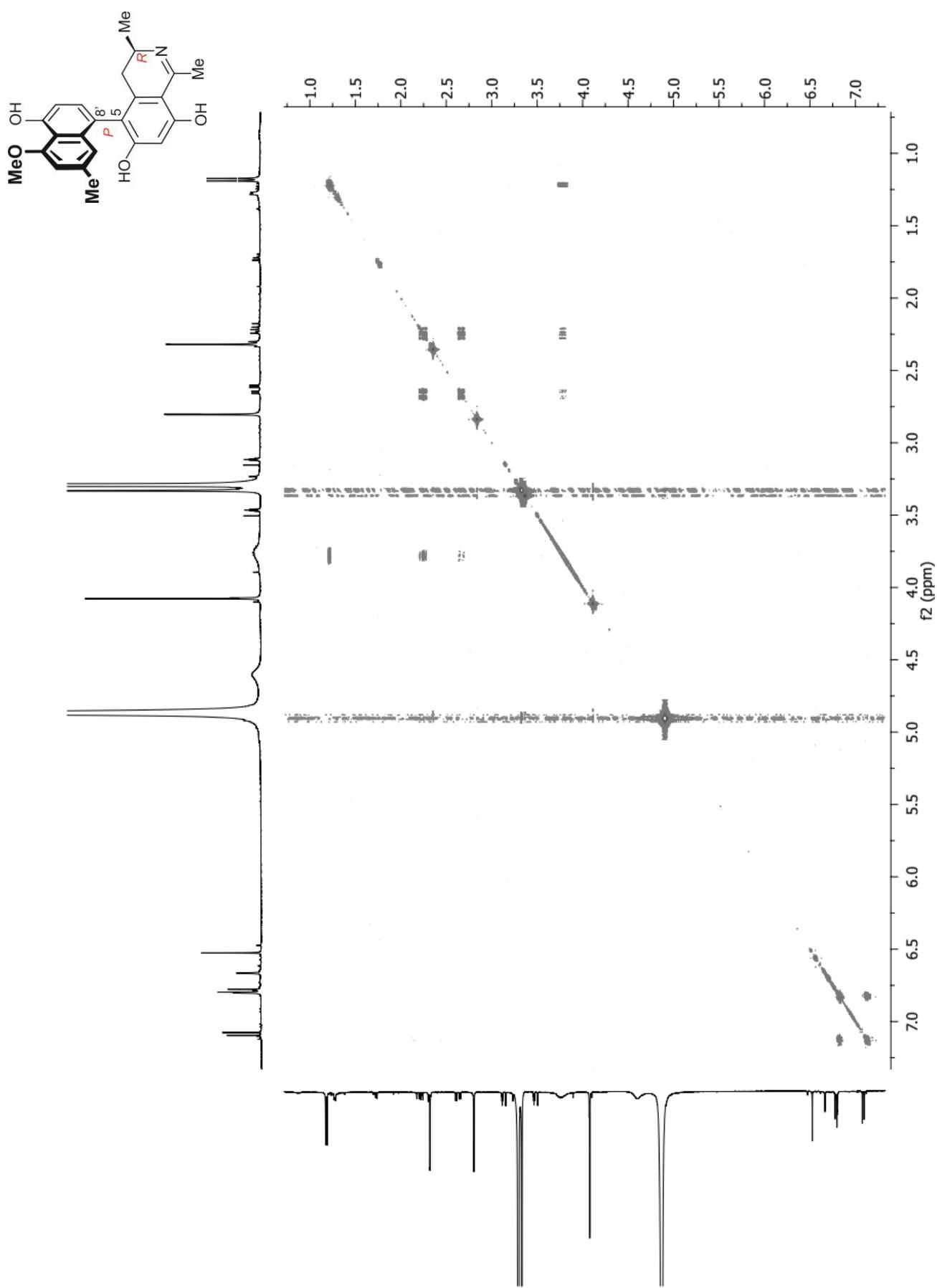


Figure S37. COSY spectrum of ancistrolilikokine E (**9**).

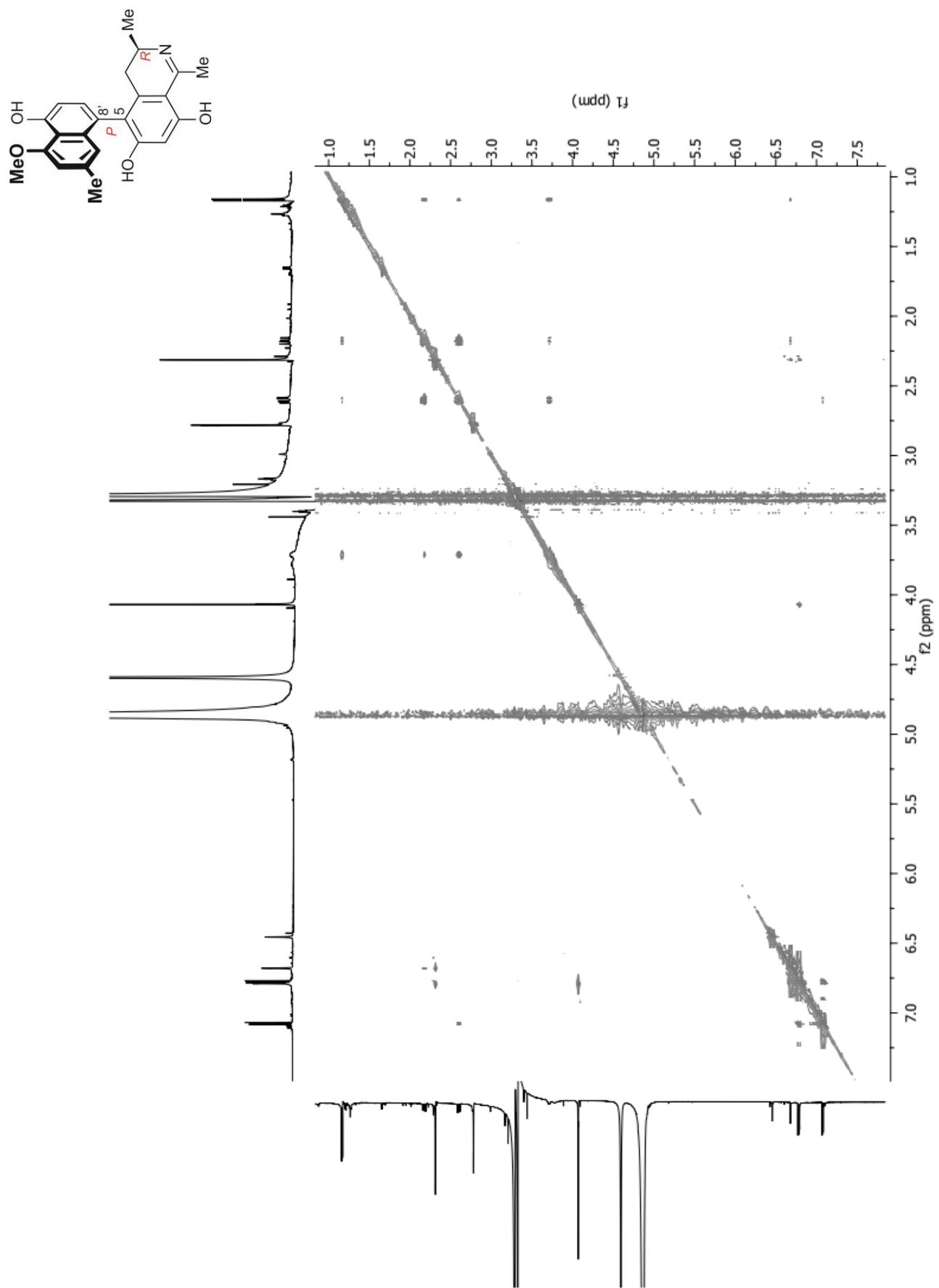


Figure S38. NOESY spectrum of ancistrolilikokine E (9).

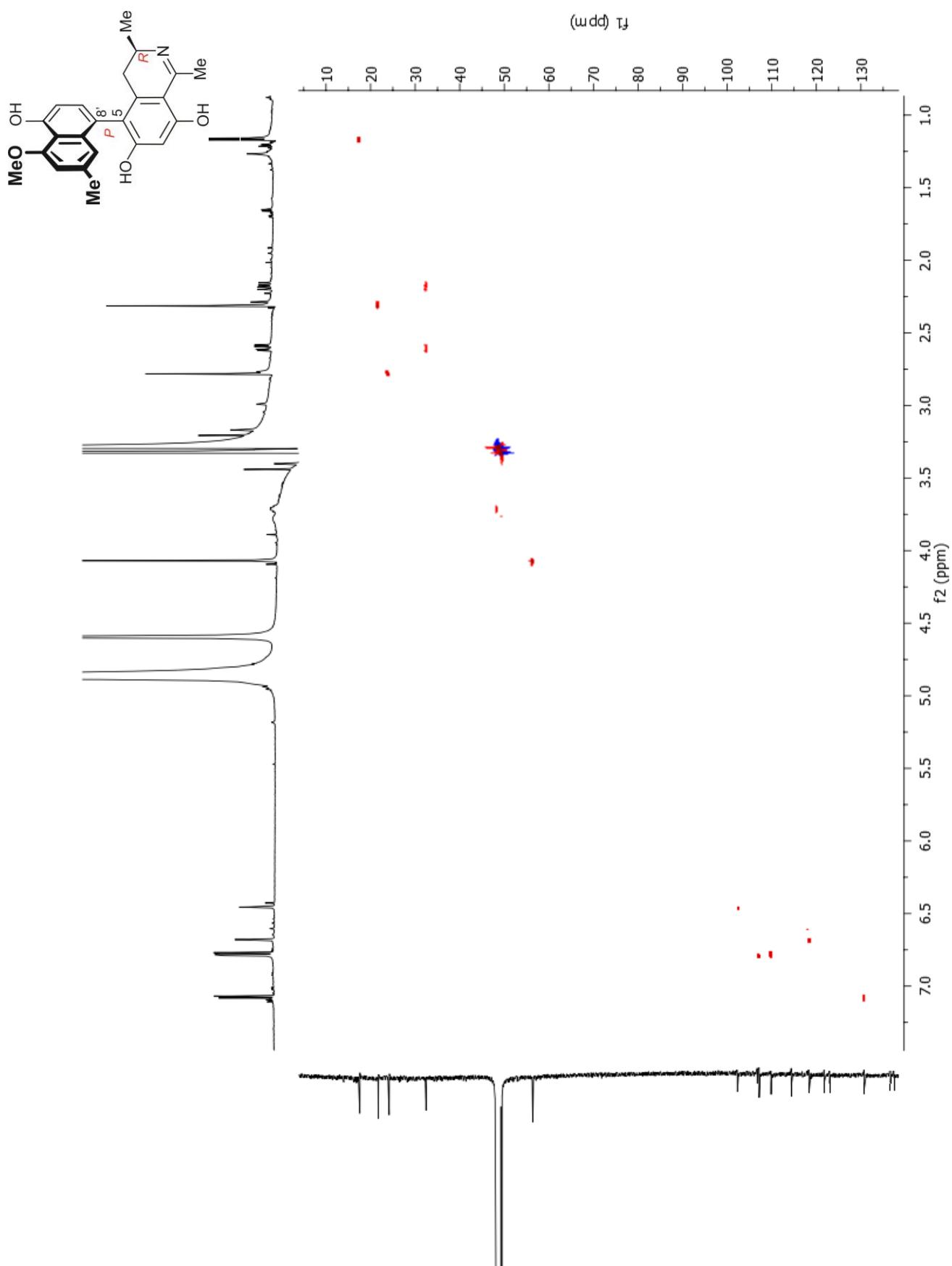


Figure S39. HSQC spectrum of ancistrolikokine E (**9**).

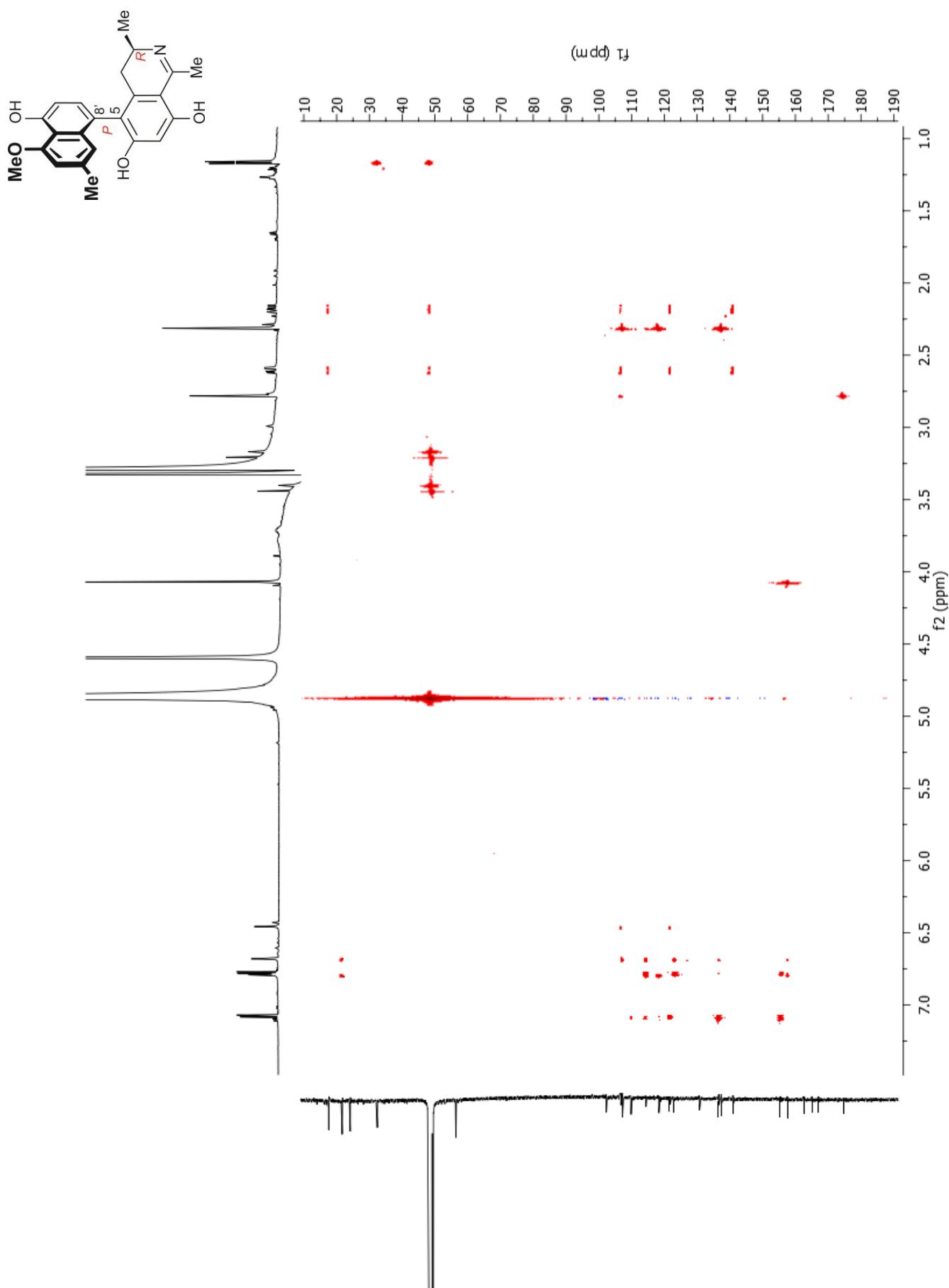


Figure S40. HMBC spectrum of ancistrolilikokine E (**9**).

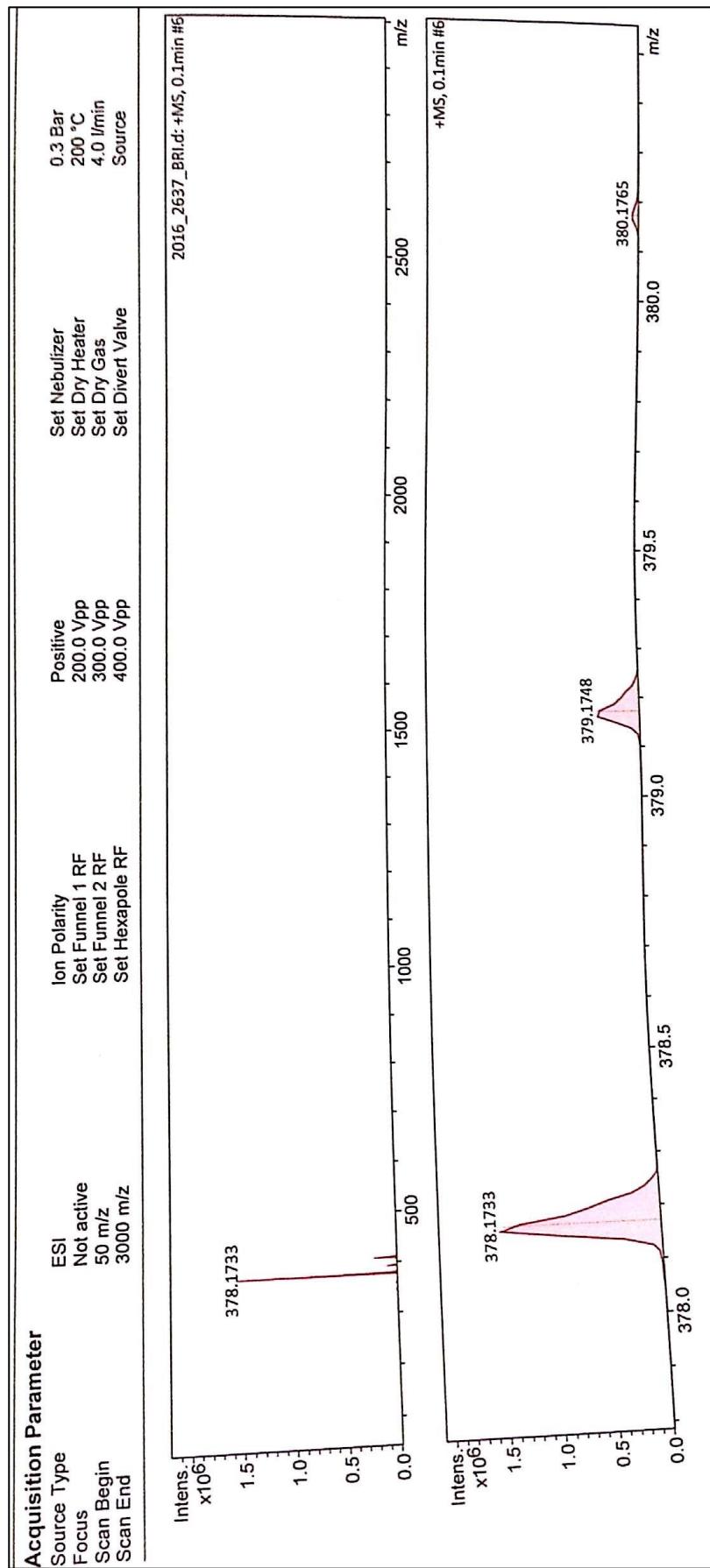
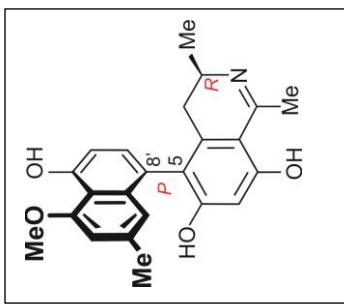


Figure S41. HRESI-MS spectrum of ancistrolilikokine E (**9**).

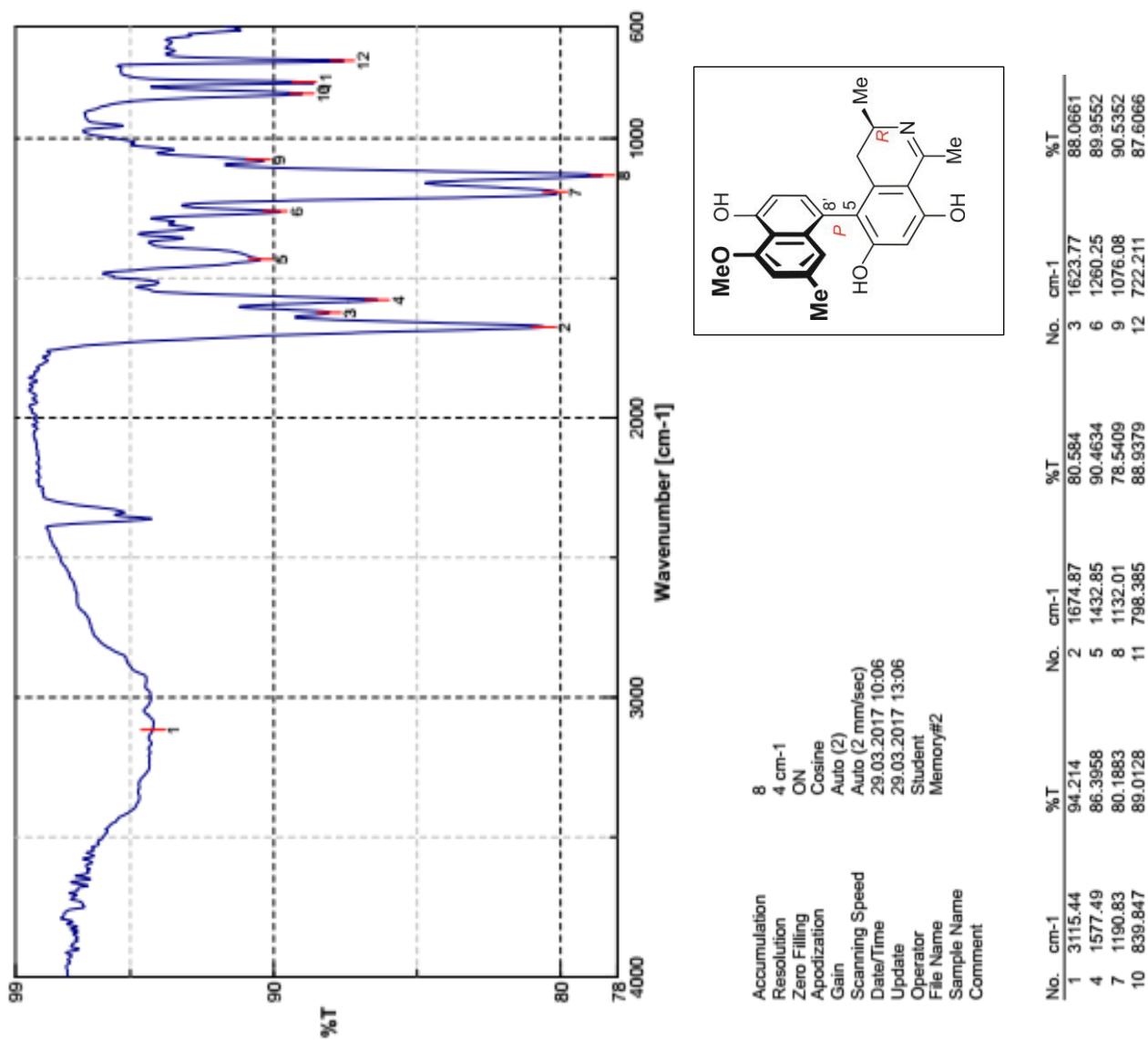


Figure S42. IR spectrum of ancistrolilikokine E (**9**).

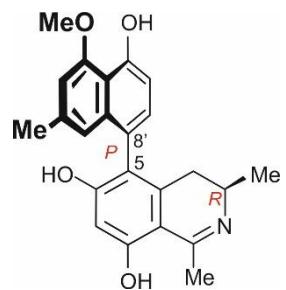
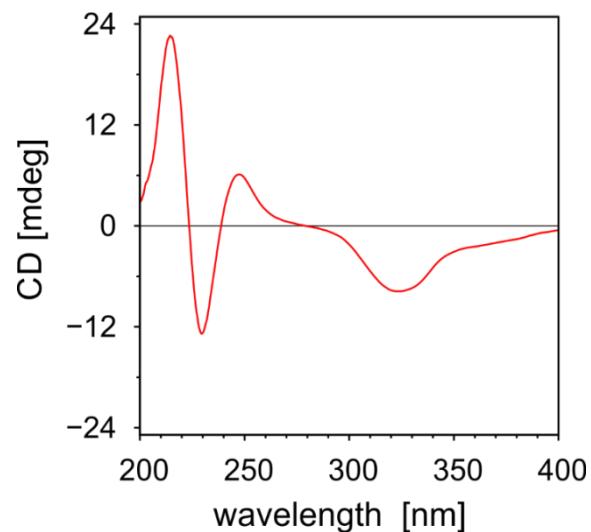
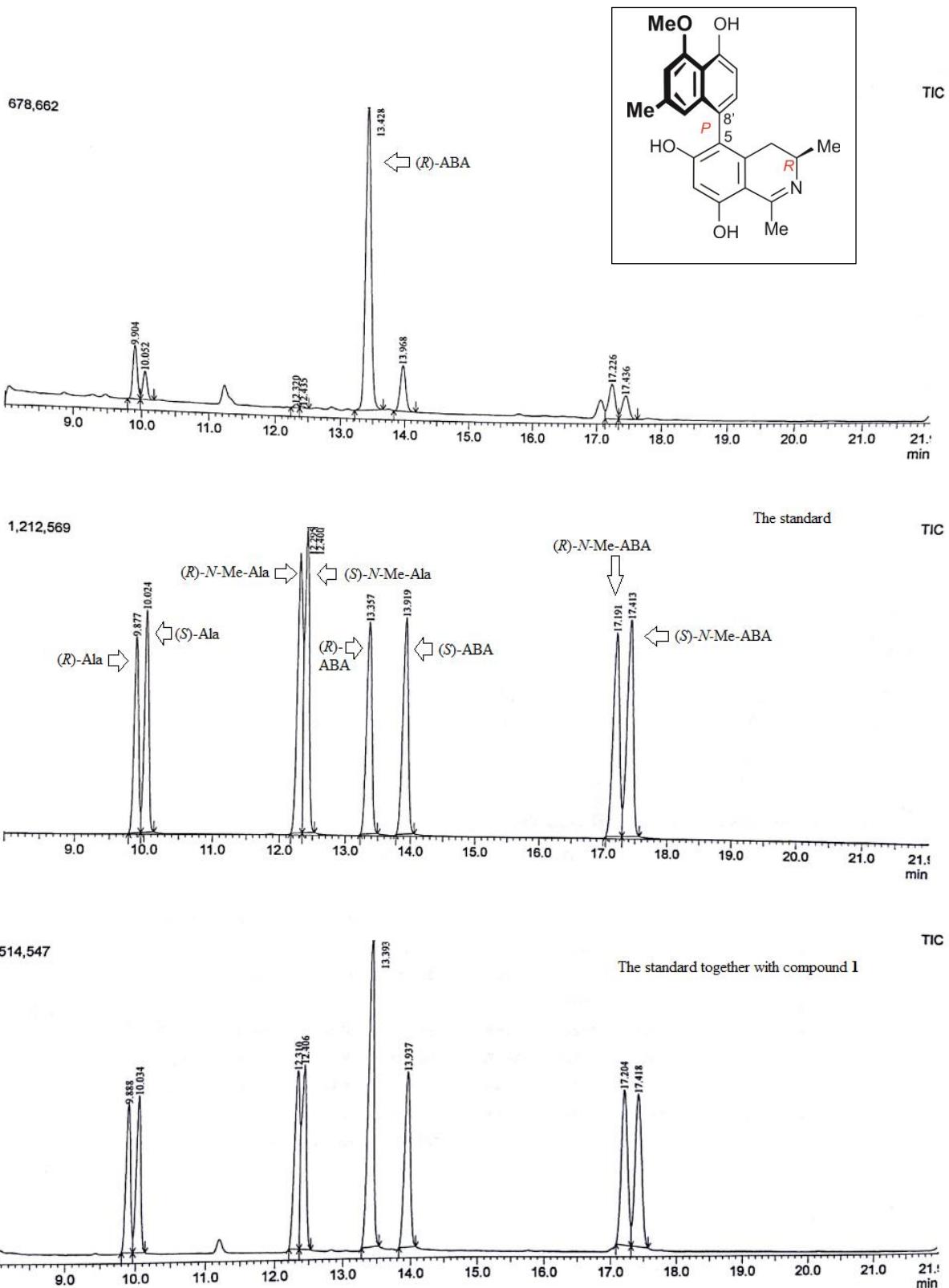


Figure S43. ECD spectrum of ancistrolilikokine E (**9**).



Ala = Alanine

N-Me-Ala = N-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = N-Methyl-3-aminobutyric acid

Figure S44. Oxidative degradation products of ancistrolilikokine E (**9**).

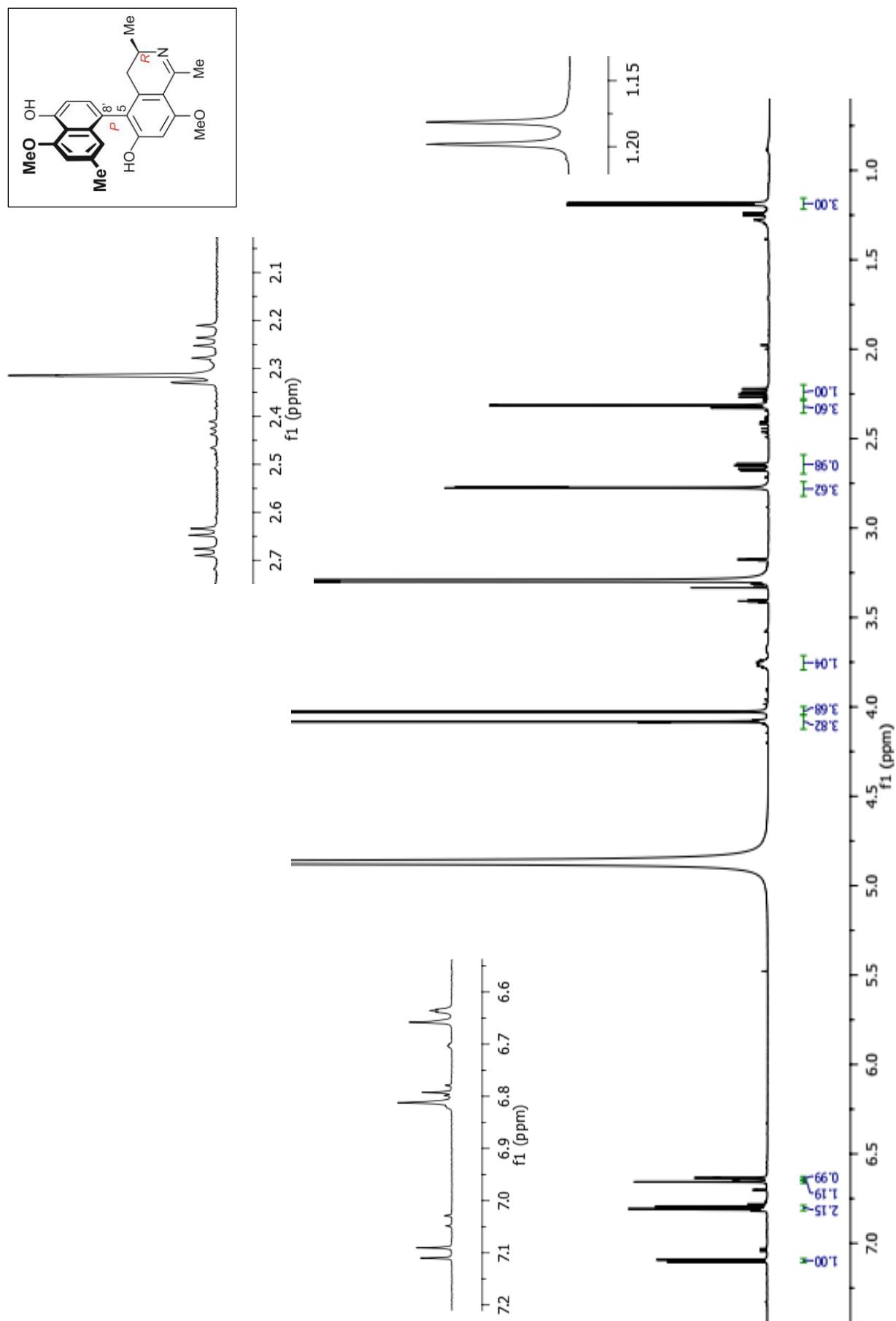


Figure S45. ^1H NMR spectrum of ancistrolikokine E₂ (**10**).

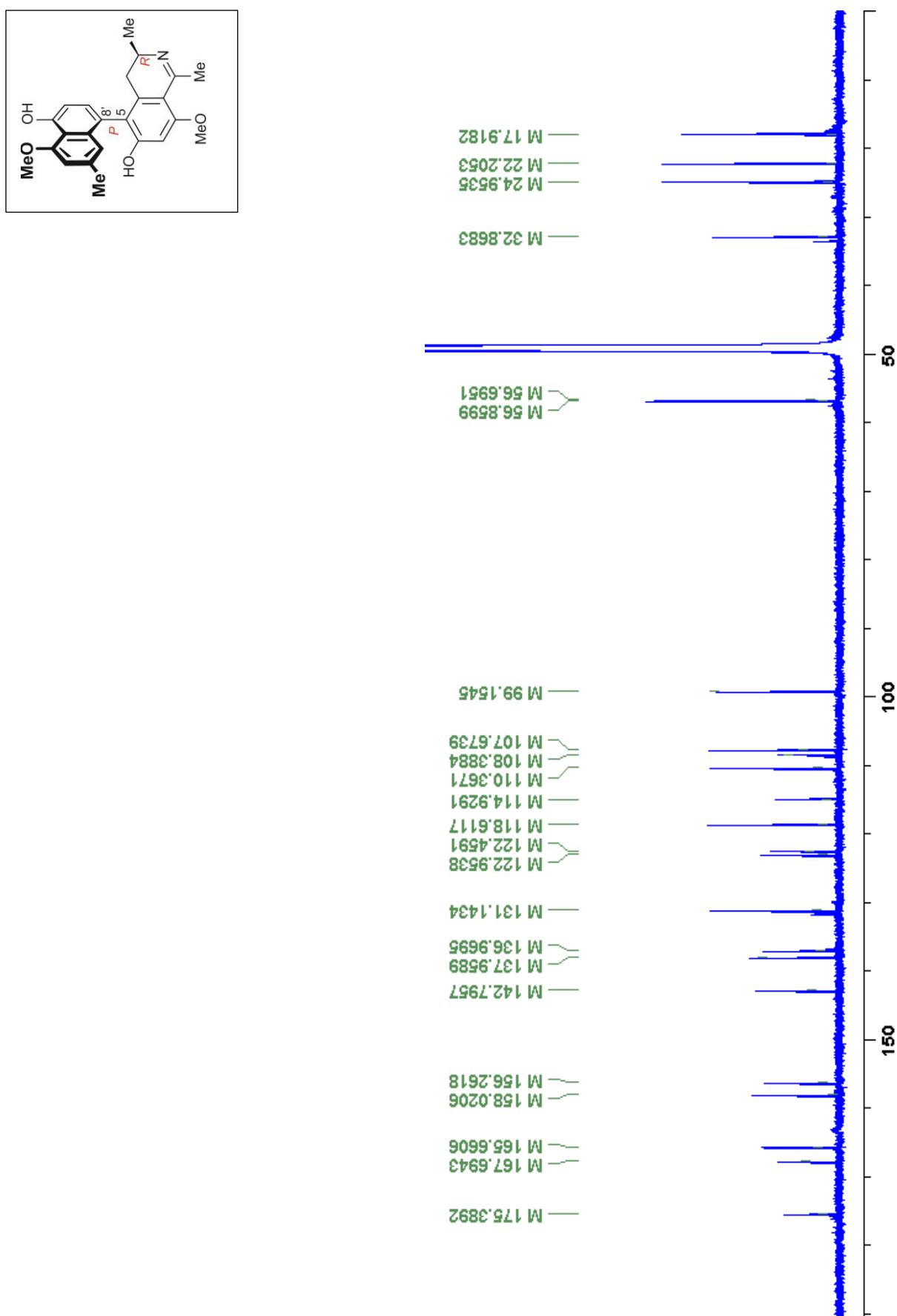


Figure S46. ¹³C NMR spectrum of ancistrolilikokine E₂ (**10**).

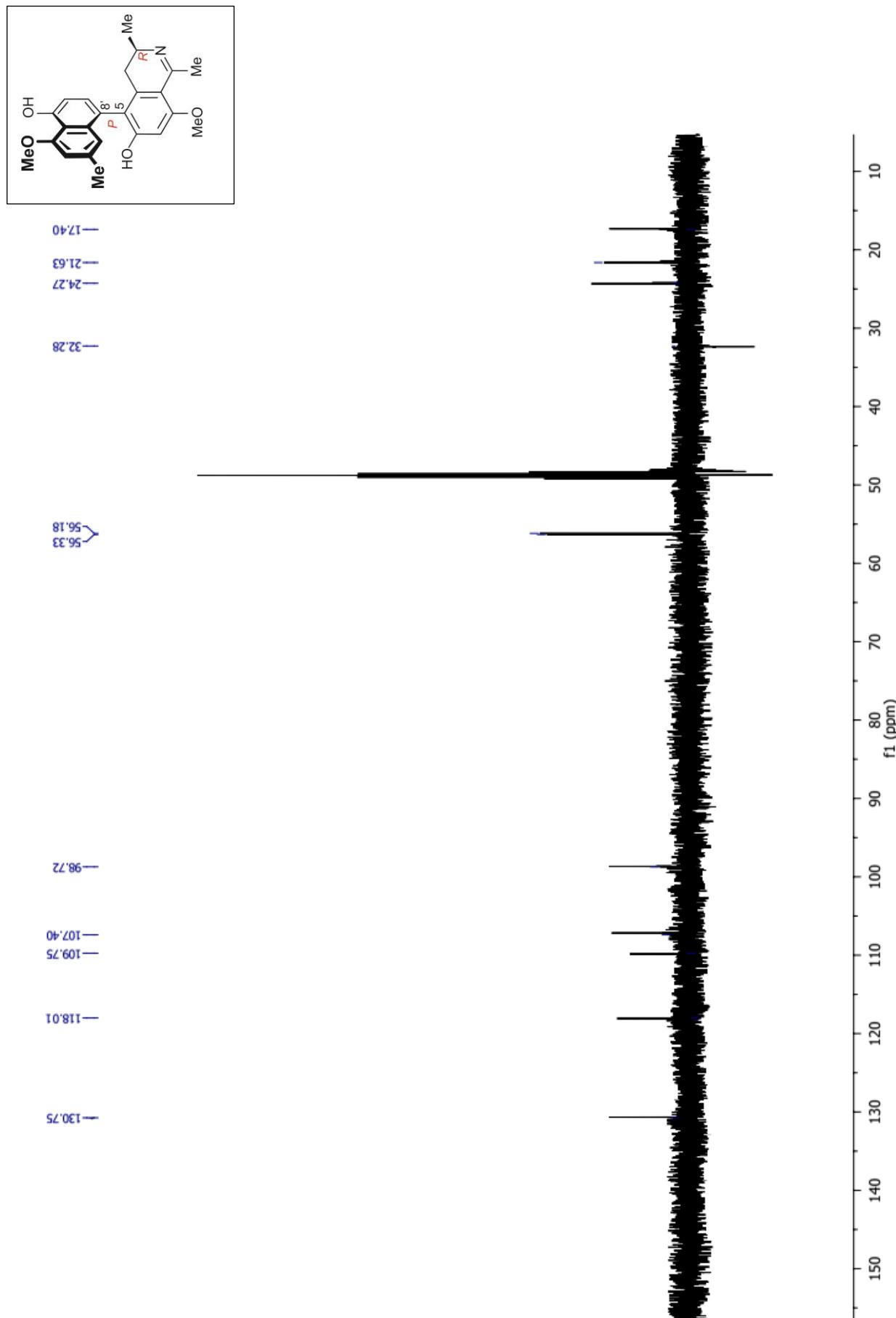


Figure S47. ^{13}C DEPT spectrum of ancistrolilikokine E₂ (**10**).

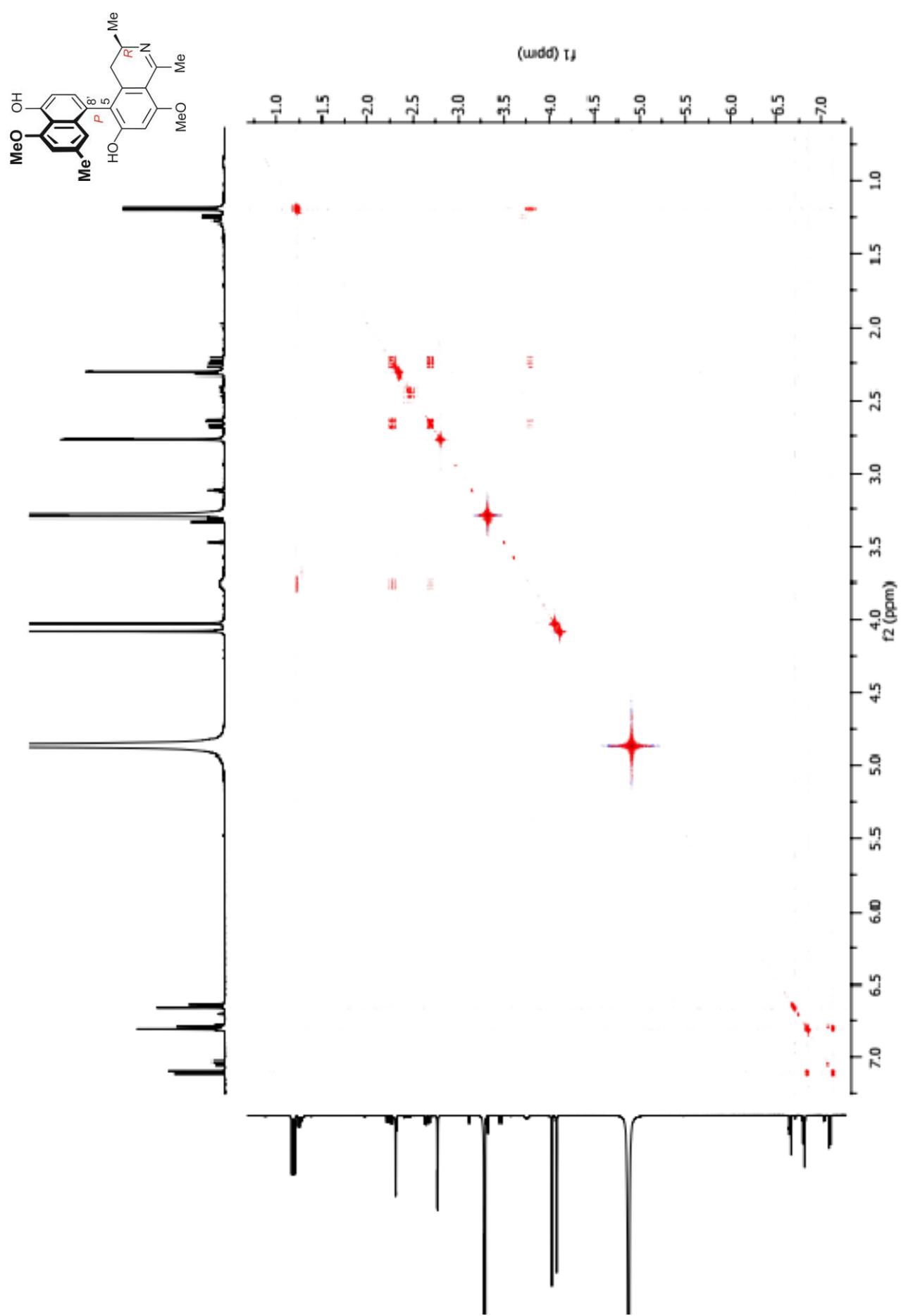


Figure S48. COSY spectrum of ancistrolikokine E₂ (**10**).

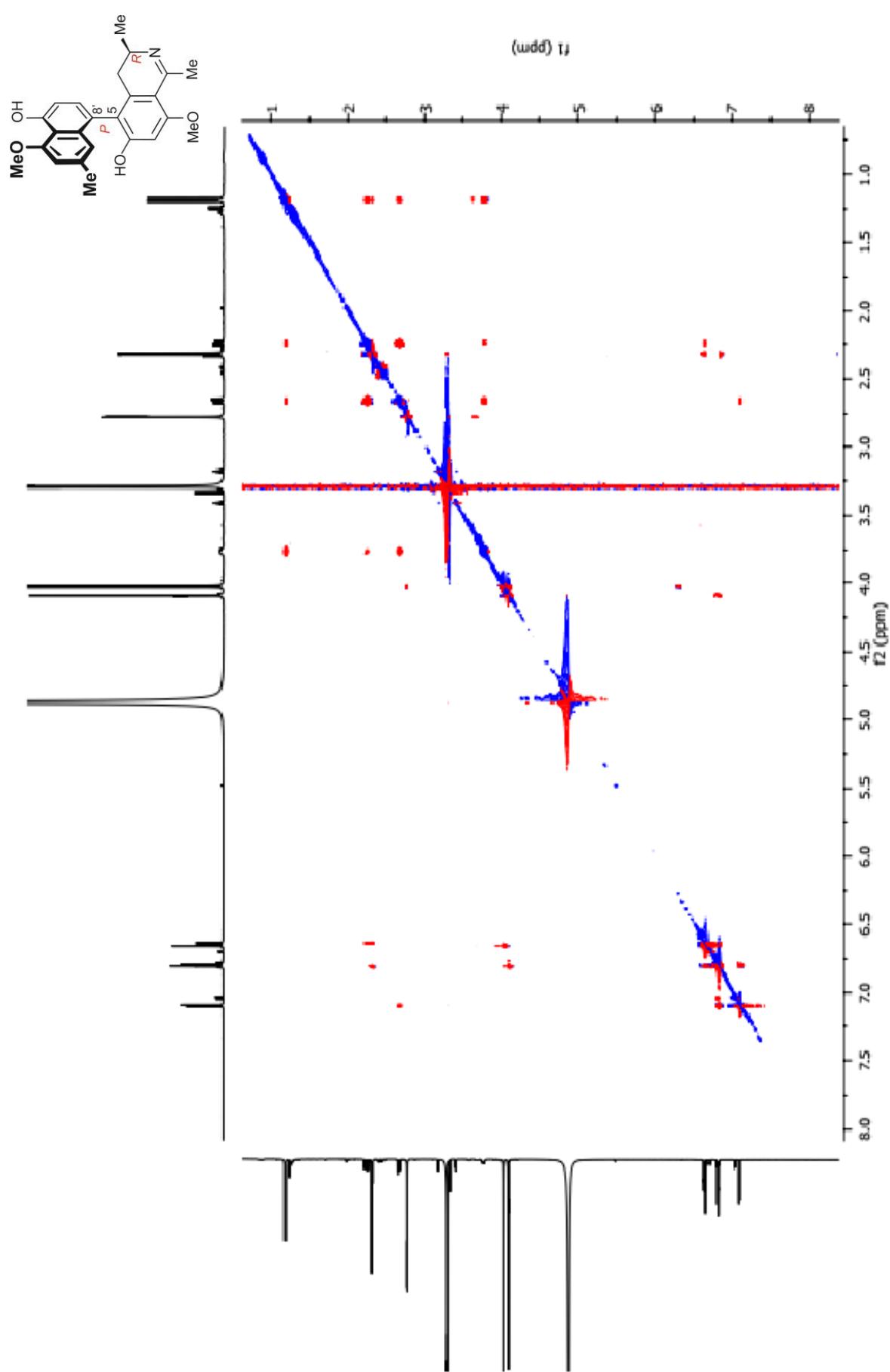


Figure S49. NOESY spectrum of ancistrolilikokine E₂ (**10**).

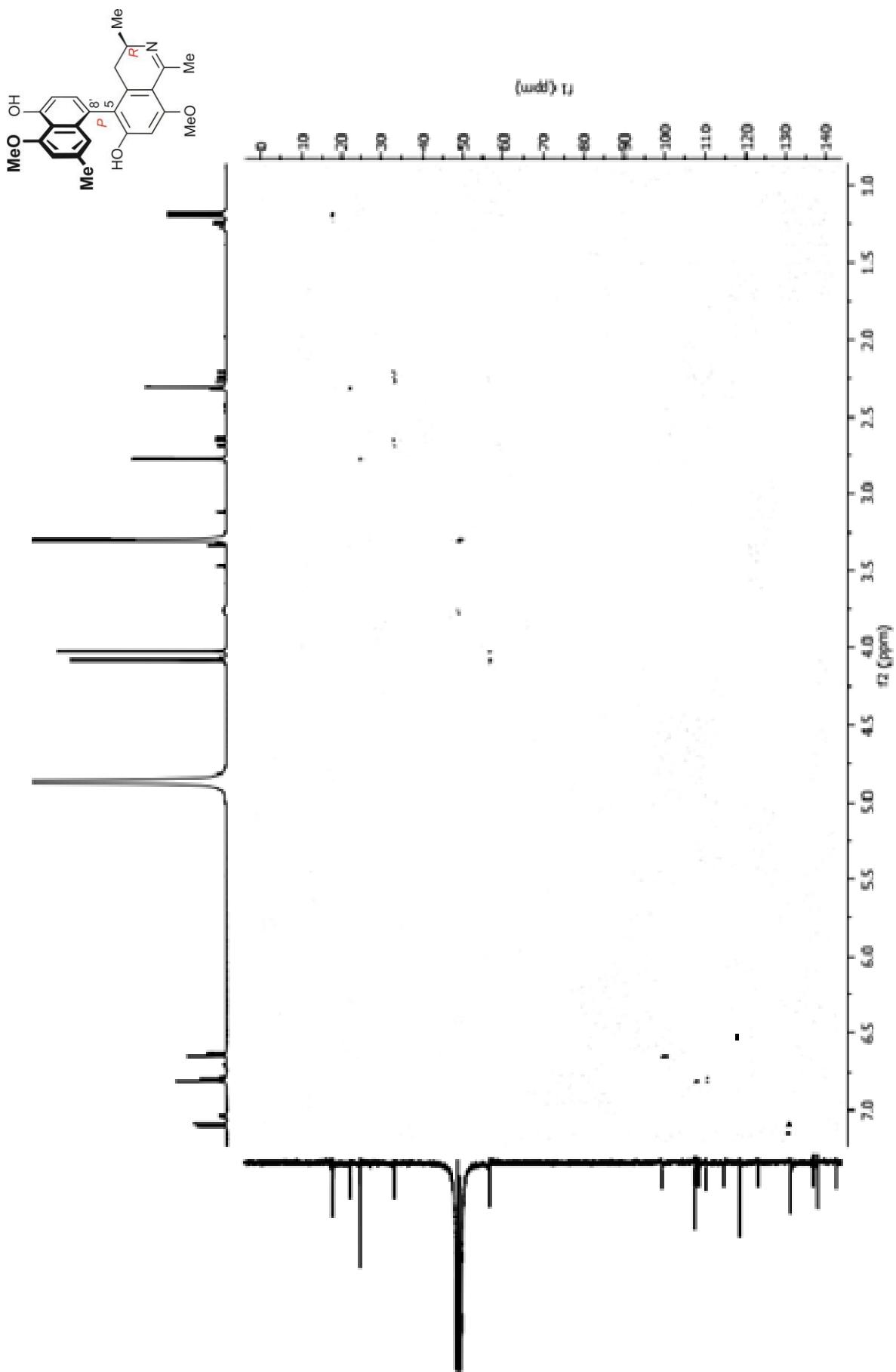


Figure S50. HSQC spectrum of ancistrolikokine E₂ (**10**).

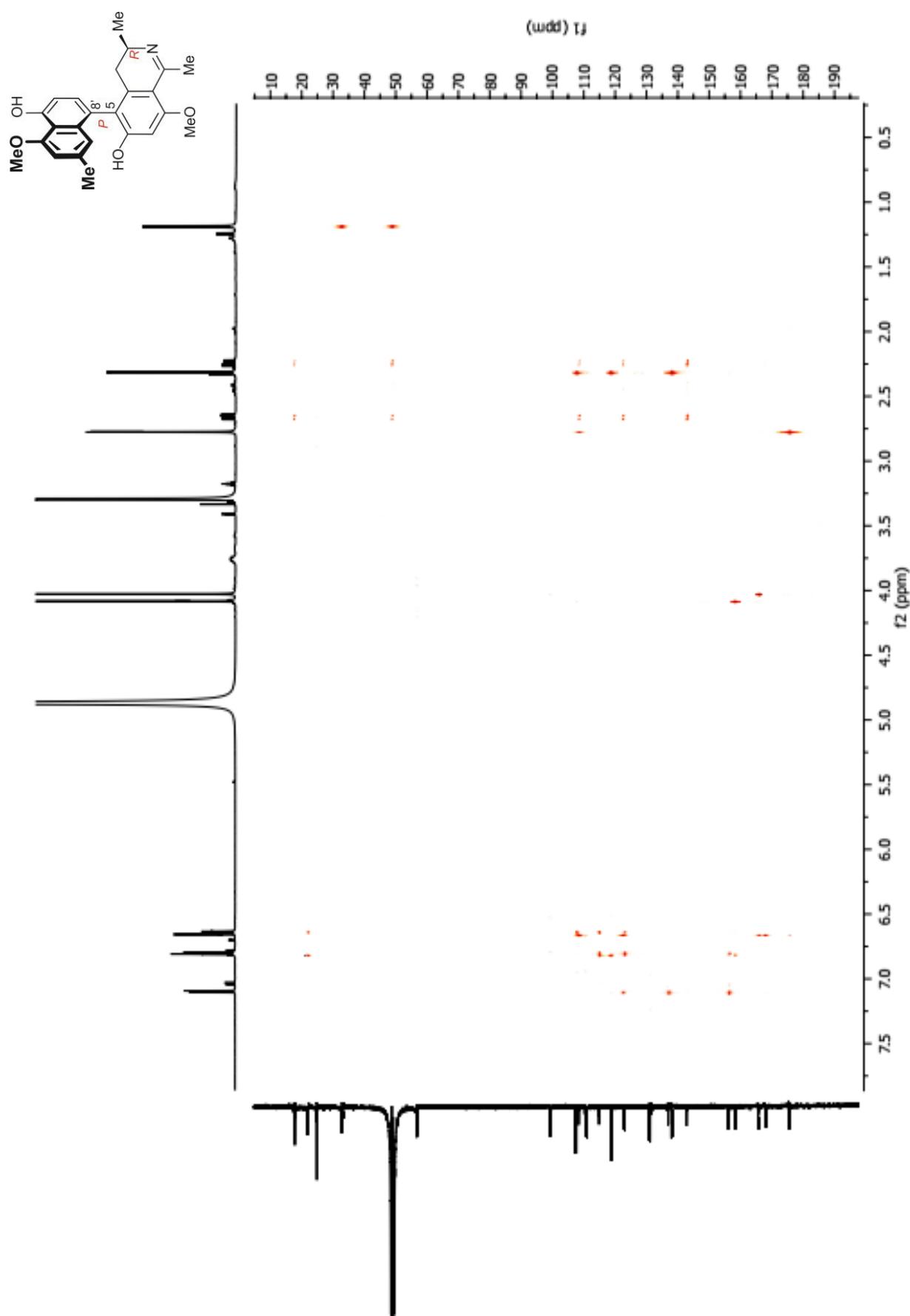


Figure S51. HMBC spectrum of ancistrolilikokine E₂ (**10**).

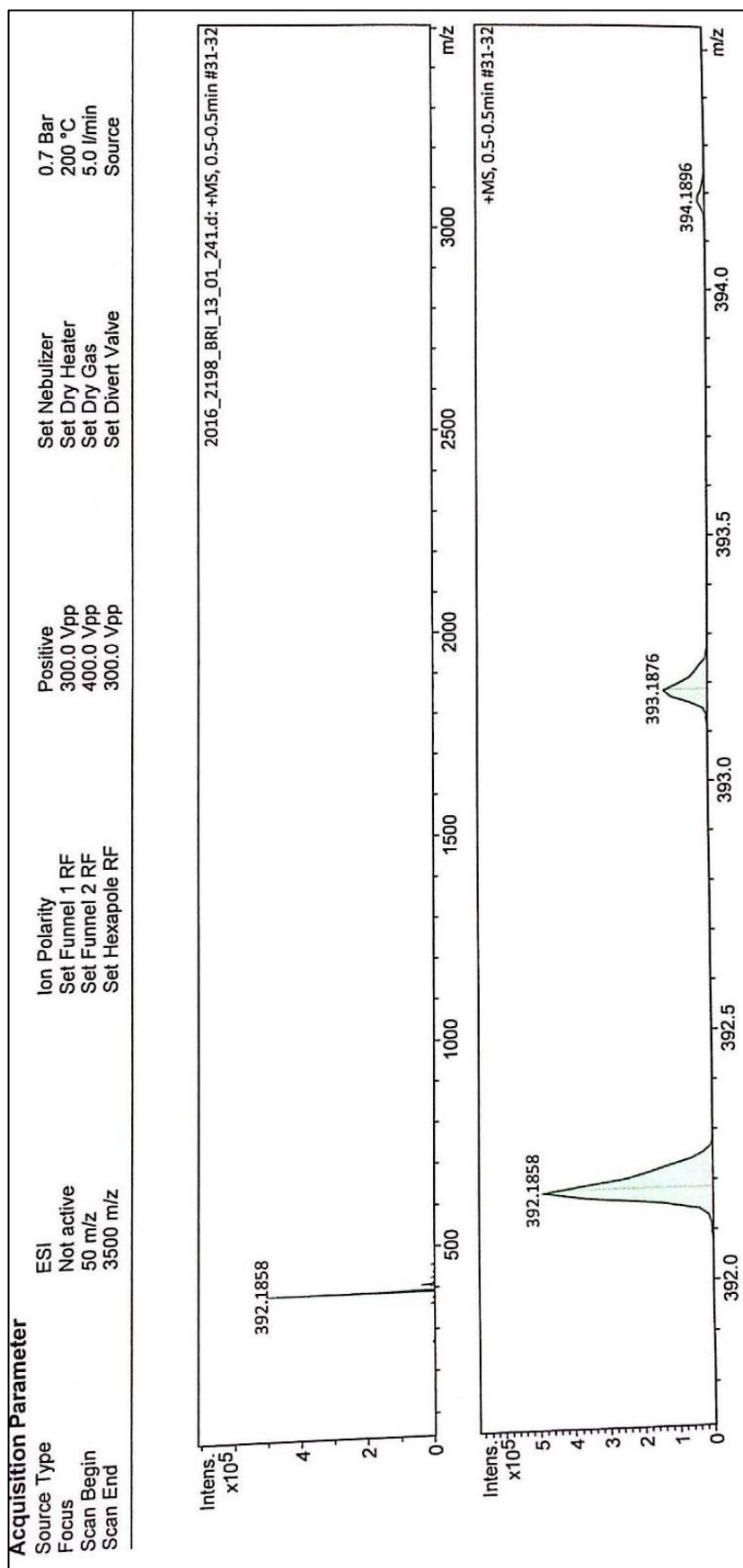
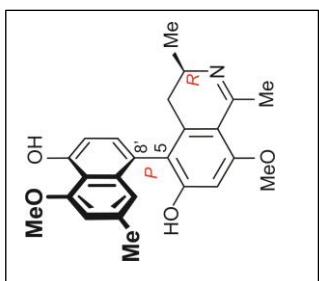


Figure S52. HRESI-MS spectrum of ancistrolilikokine E₂ (**10**).

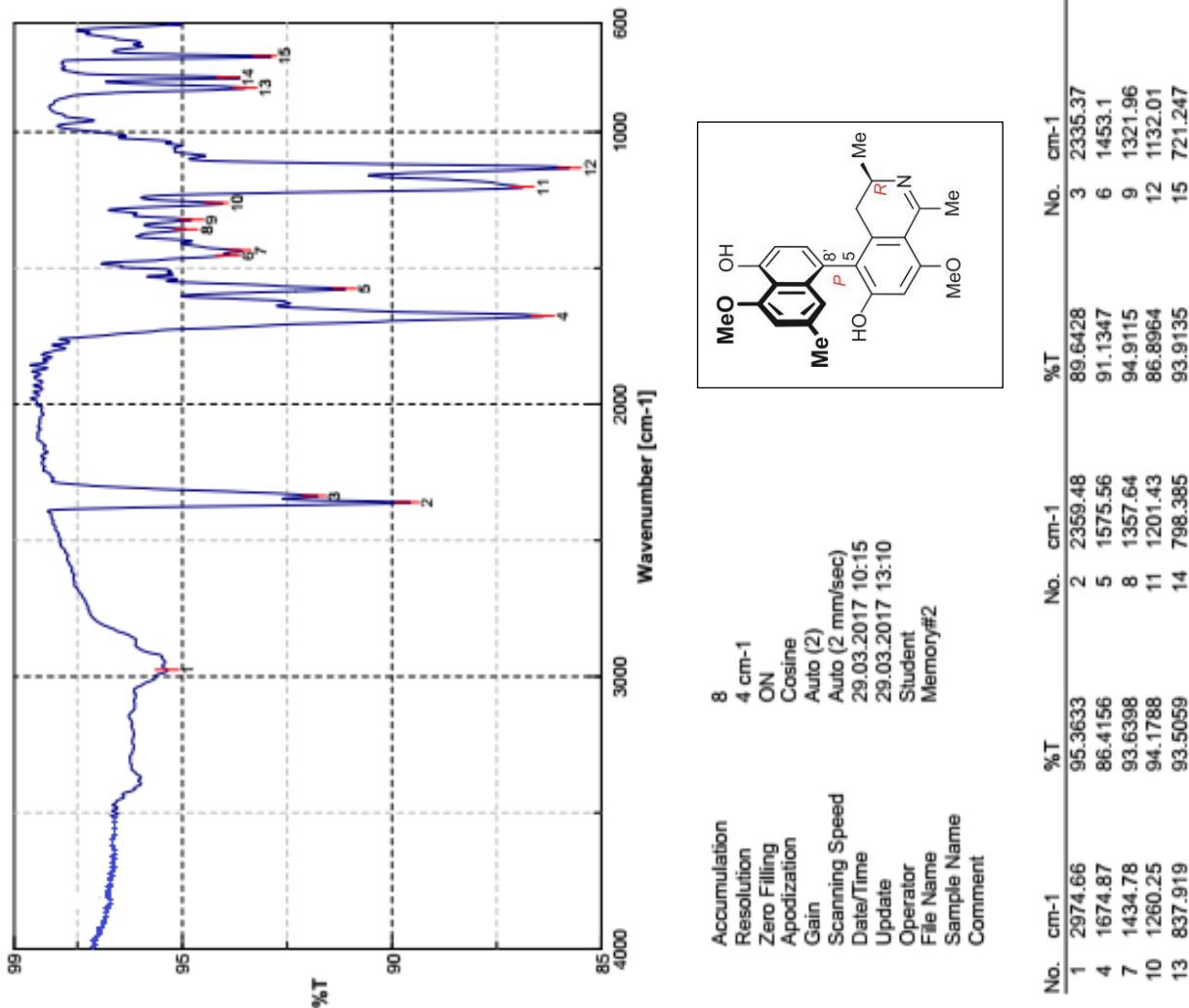


Figure S53. IR spectrum of ancistrolilikokine E₂ (**10**).

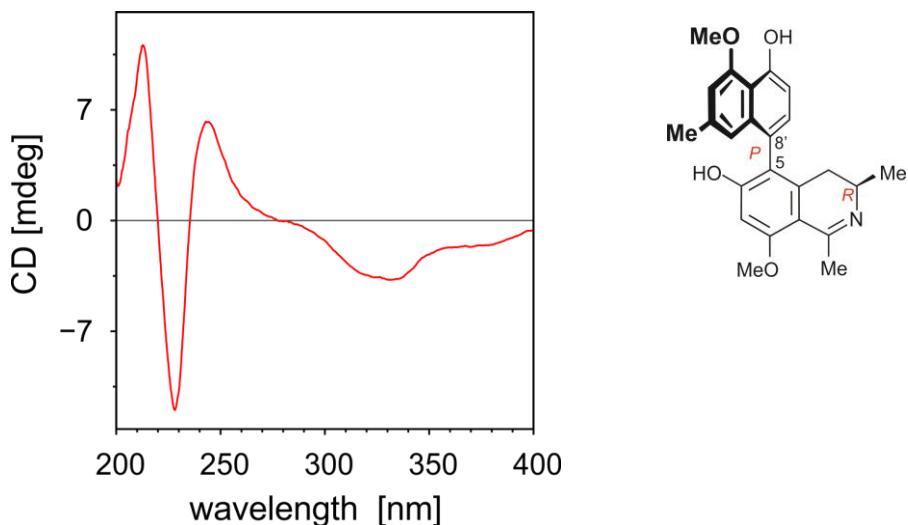
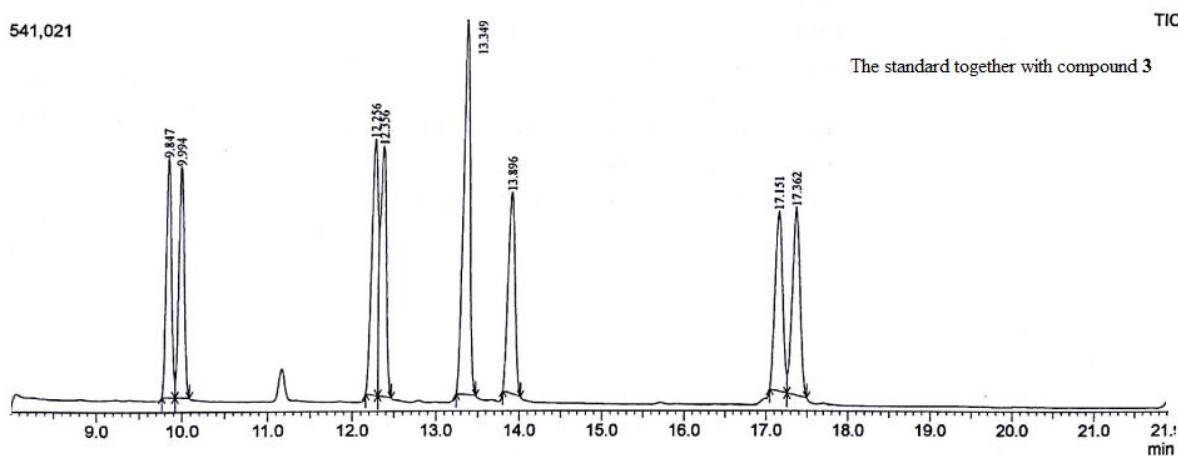
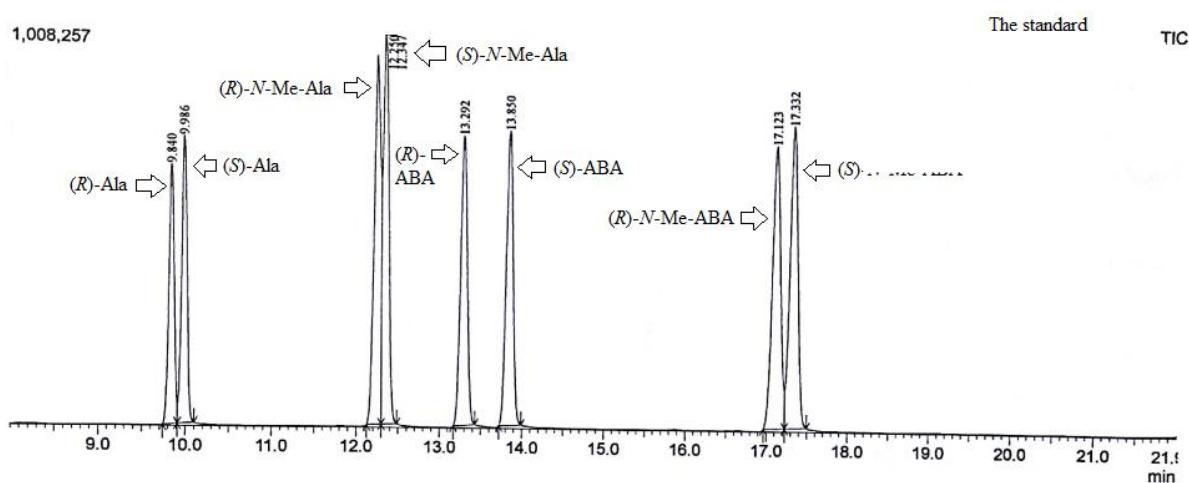
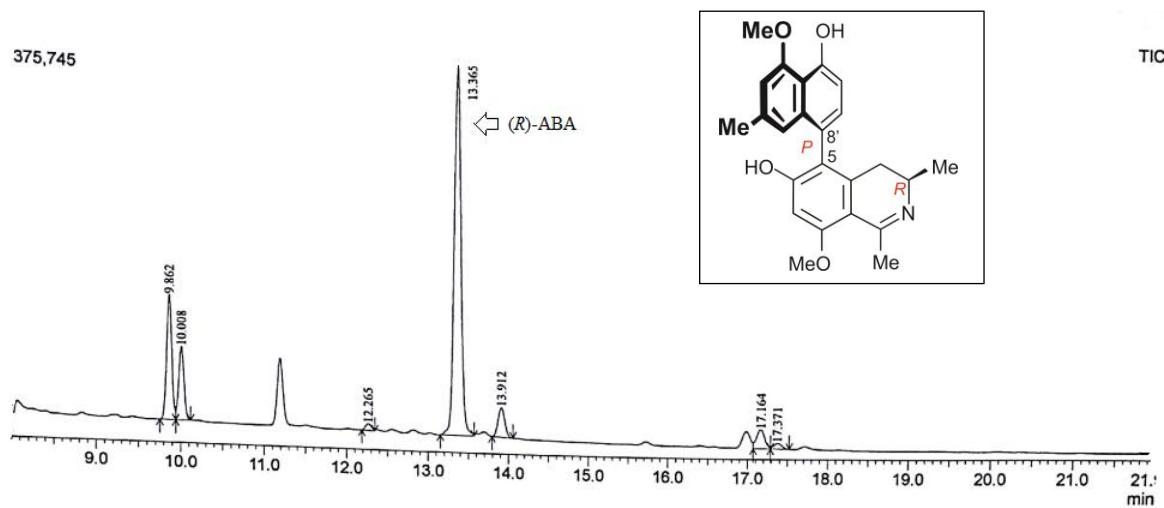


Figure S54. ECD spectrum of ancistrolilikokine E₂ (**10**).



Ala = Alanine

N-Me-Ala = N-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = N-Methyl-3-aminobutyric acid

Figure S55. Oxidative degradation products of ancistrolikokine E₂ (**10**).

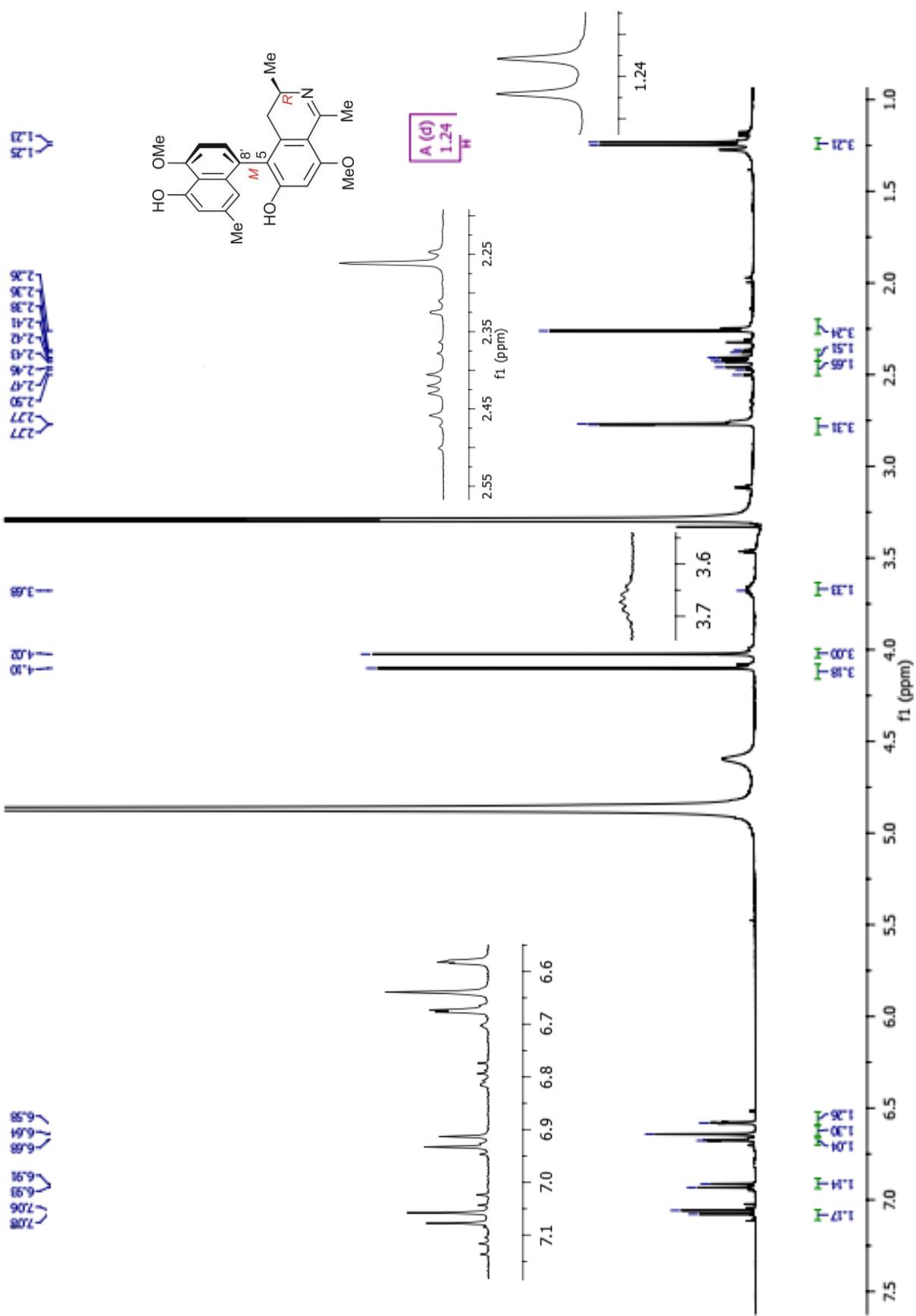


Figure S56. ^1H NMR spectrum of ancistrolikokine F (**11**).

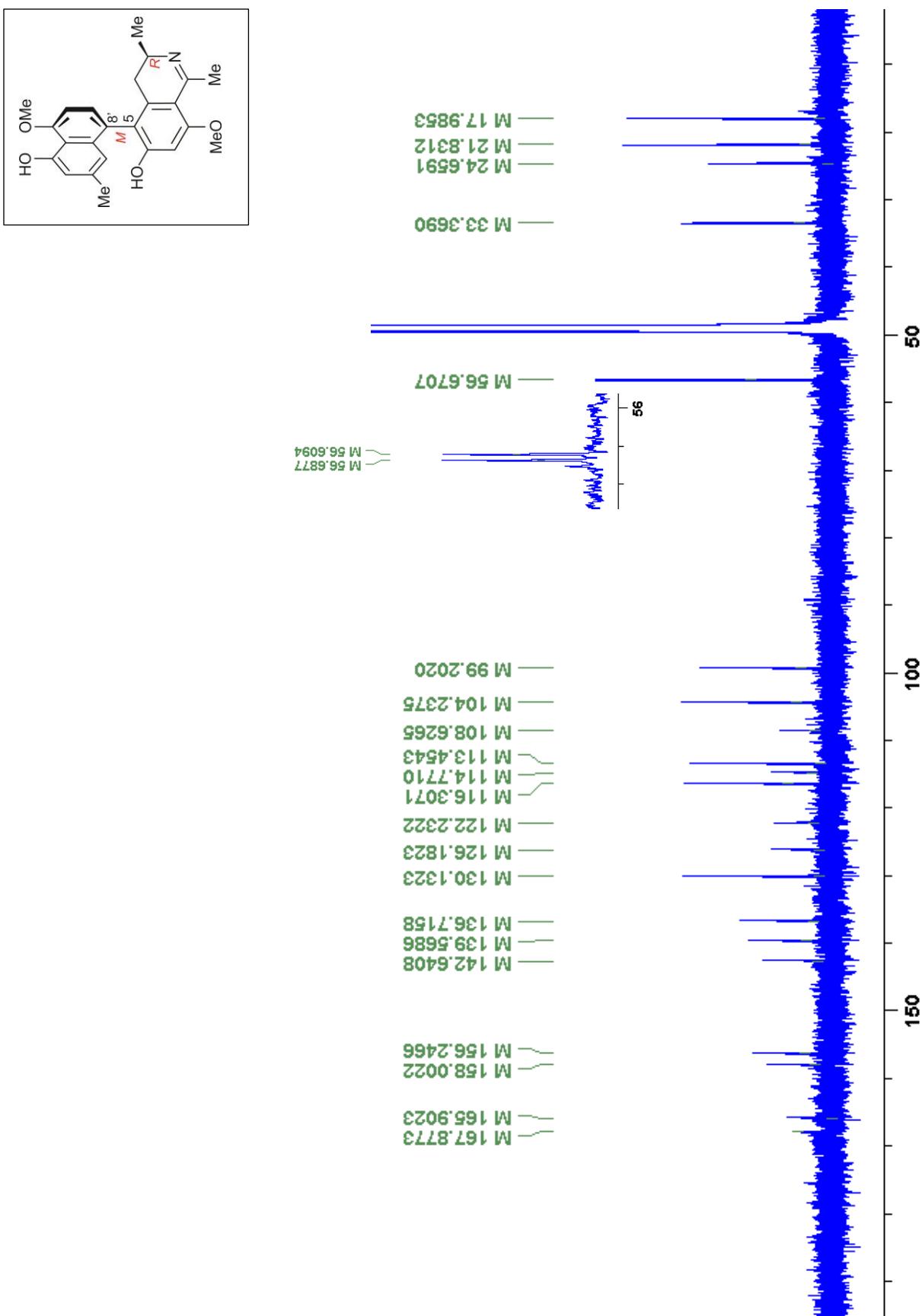


Figure S57. ^{13}C NMR spectrum of ancistrolilikokine F (**11**).

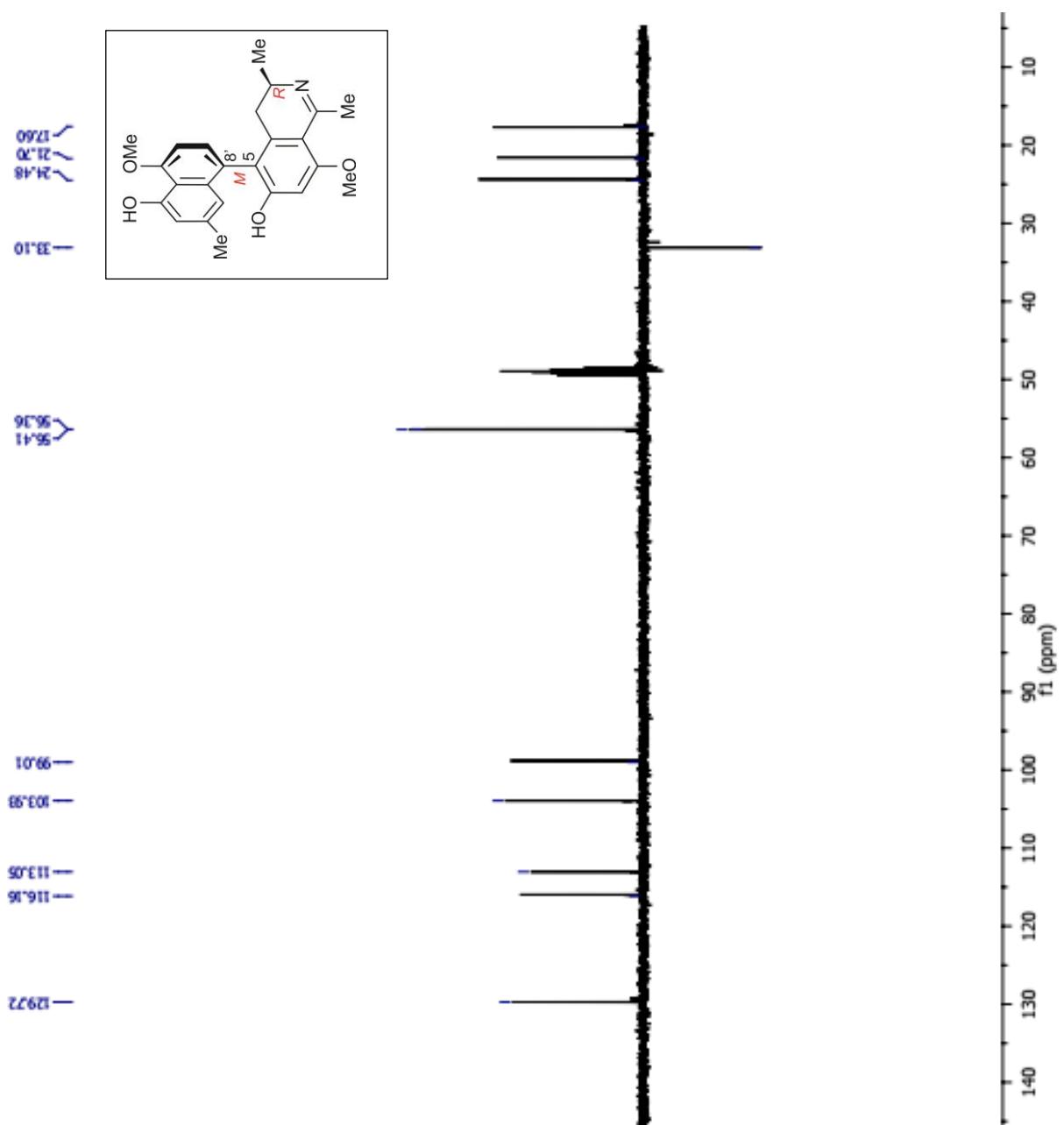


Figure S58. ^{13}C DEPT spectrum of ancistrolilikokine F (**11**).

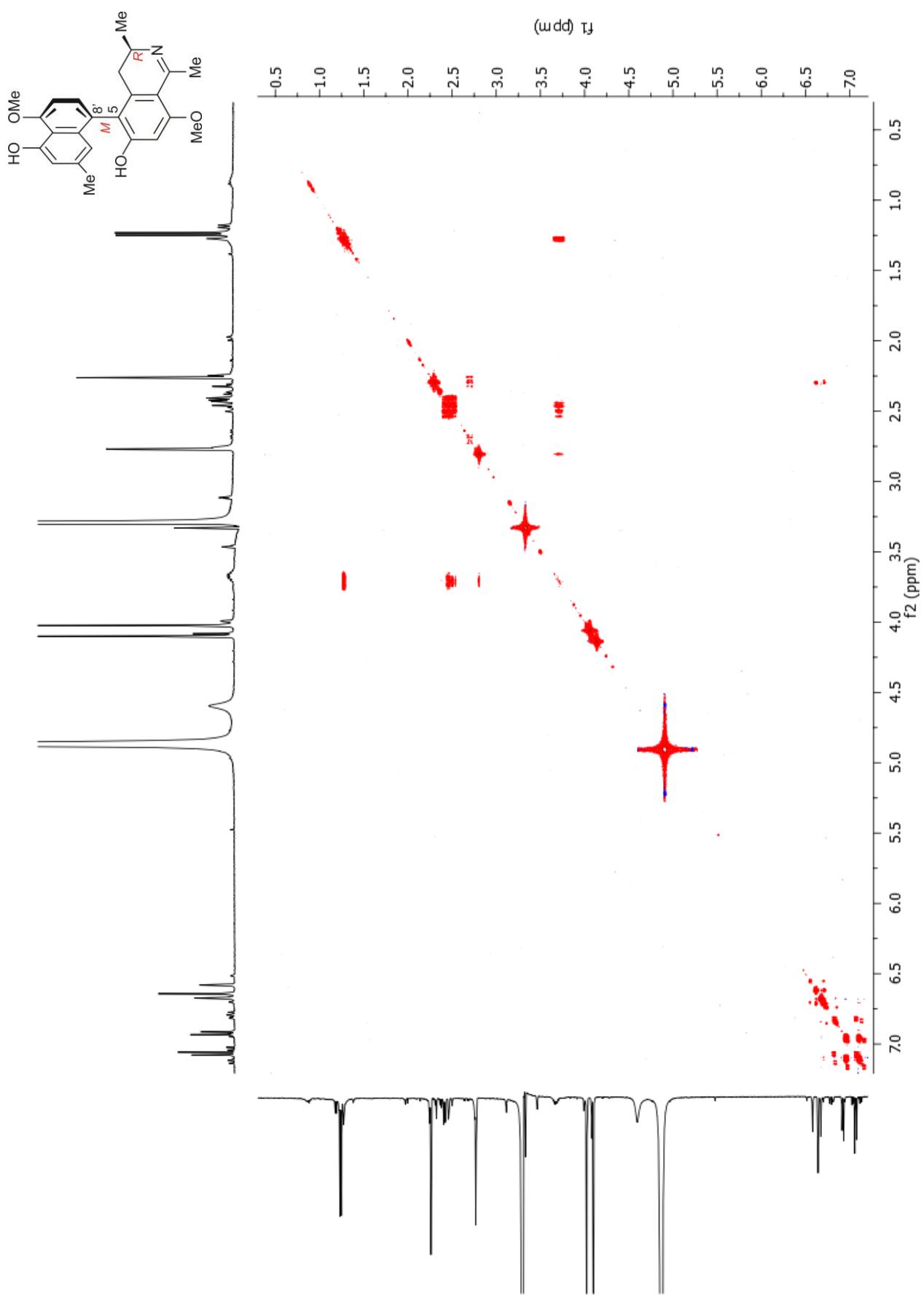


Figure S59. COSY spectrum of ancistrolilikokine F (**11**).

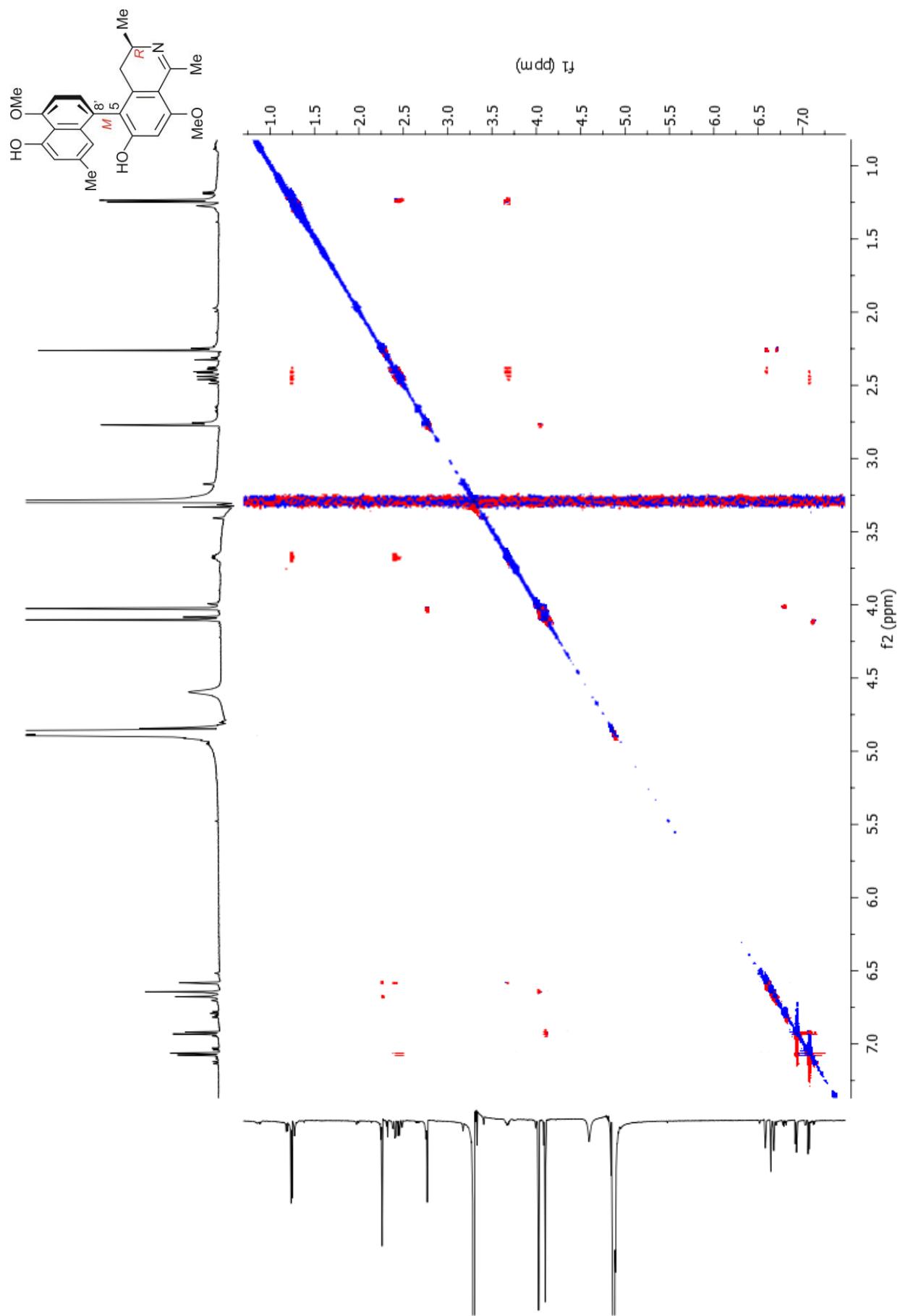


Figure S60. NOESY spectrum of ancistrolilikokine F (**11**).

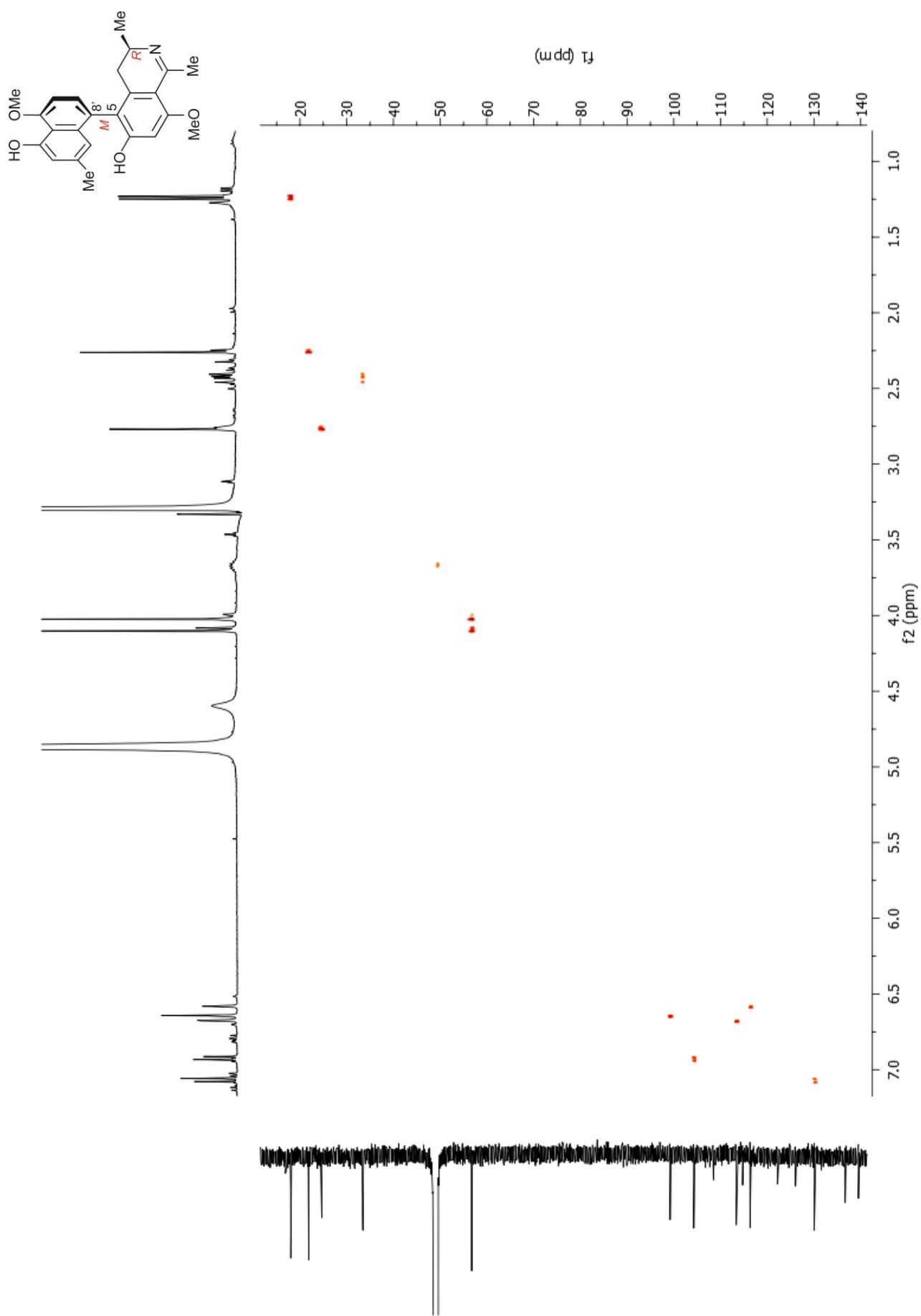


Figure S61. HSQC spectrum of ancistrolilikokine F (**11**).

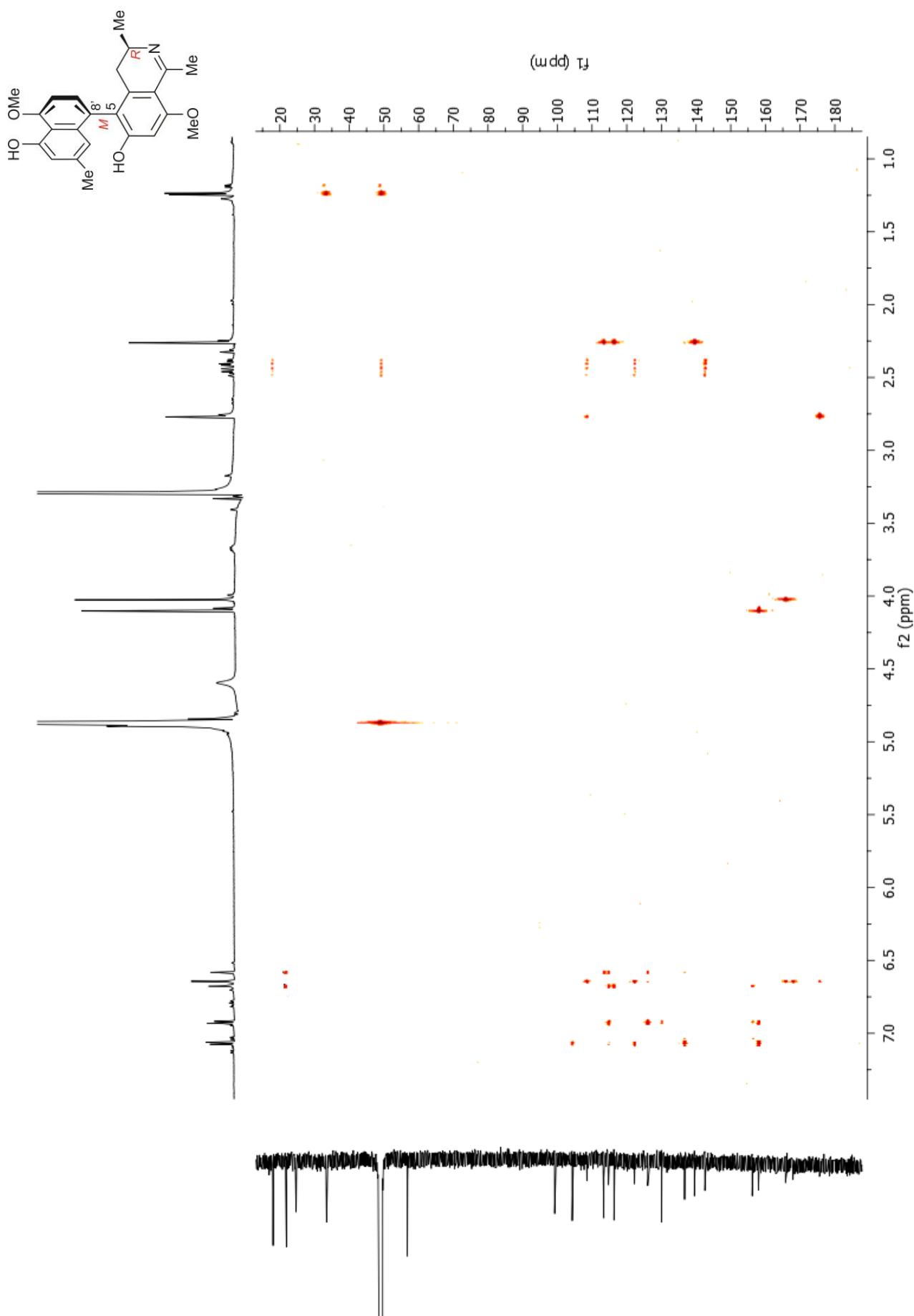


Figure S62. HMBC spectrum of ancistrolilikokine F (**11**).

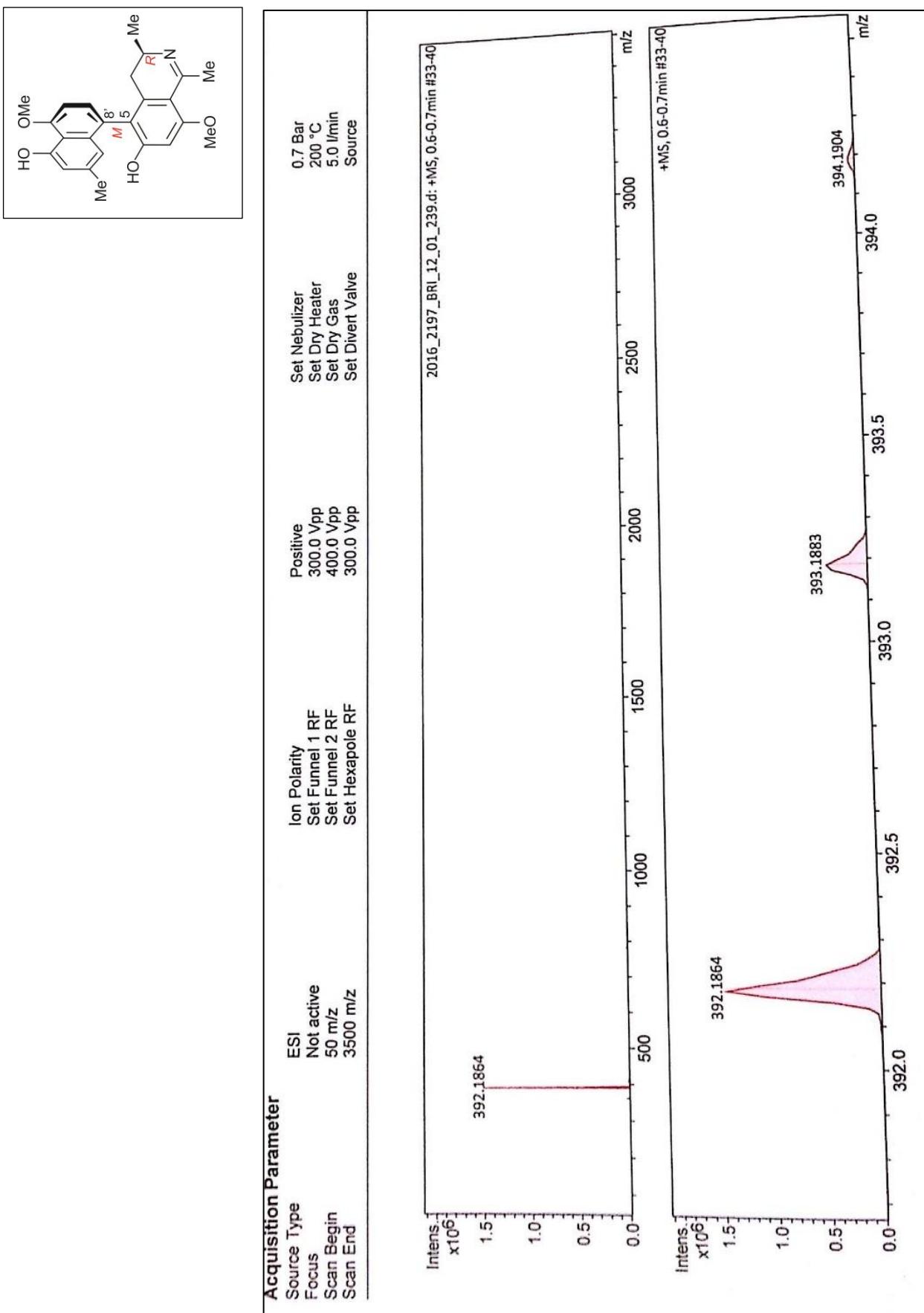


Figure S63. HRESI-MS spectrum of ancistrolikokine F (**11**).

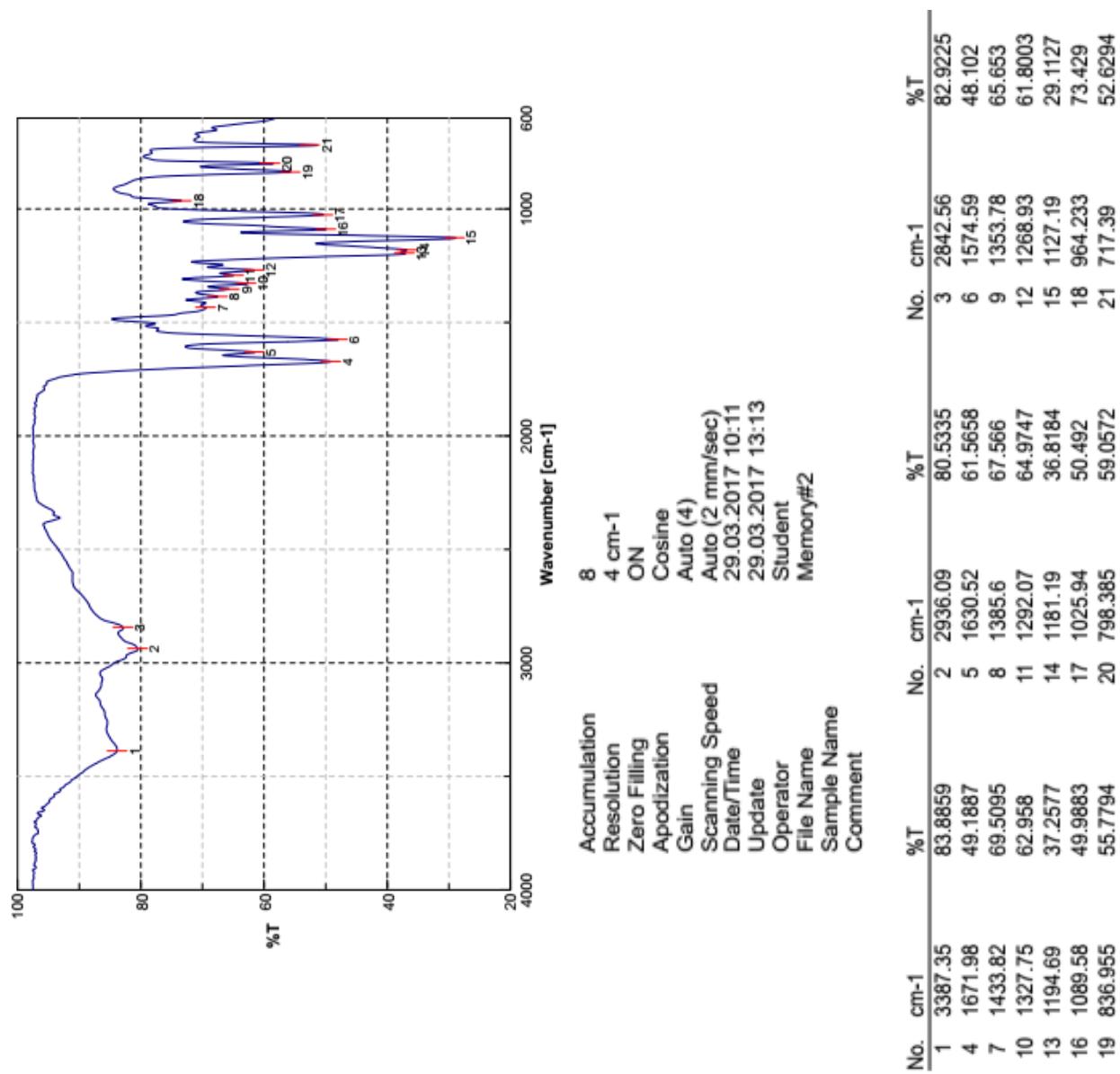


Figure S64. IR spectrum of ancistrolilikokine F (**11**).

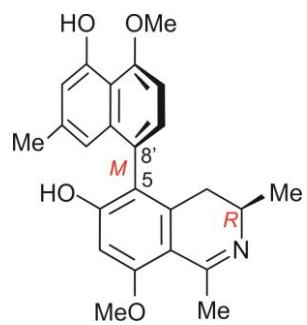
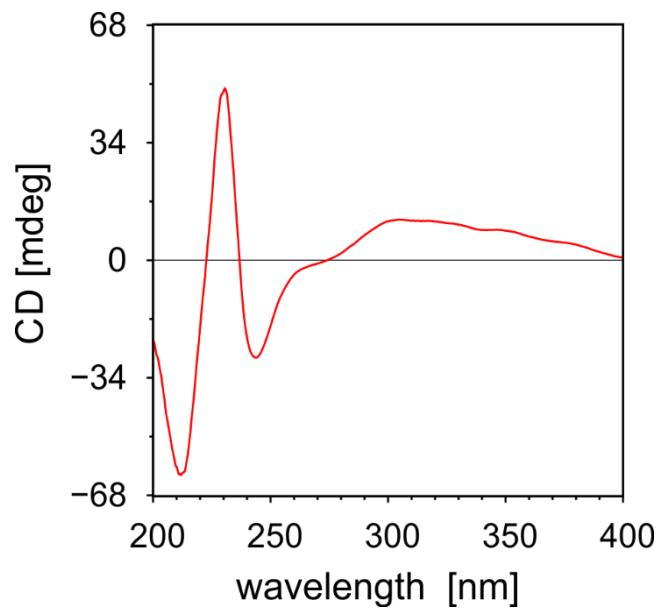
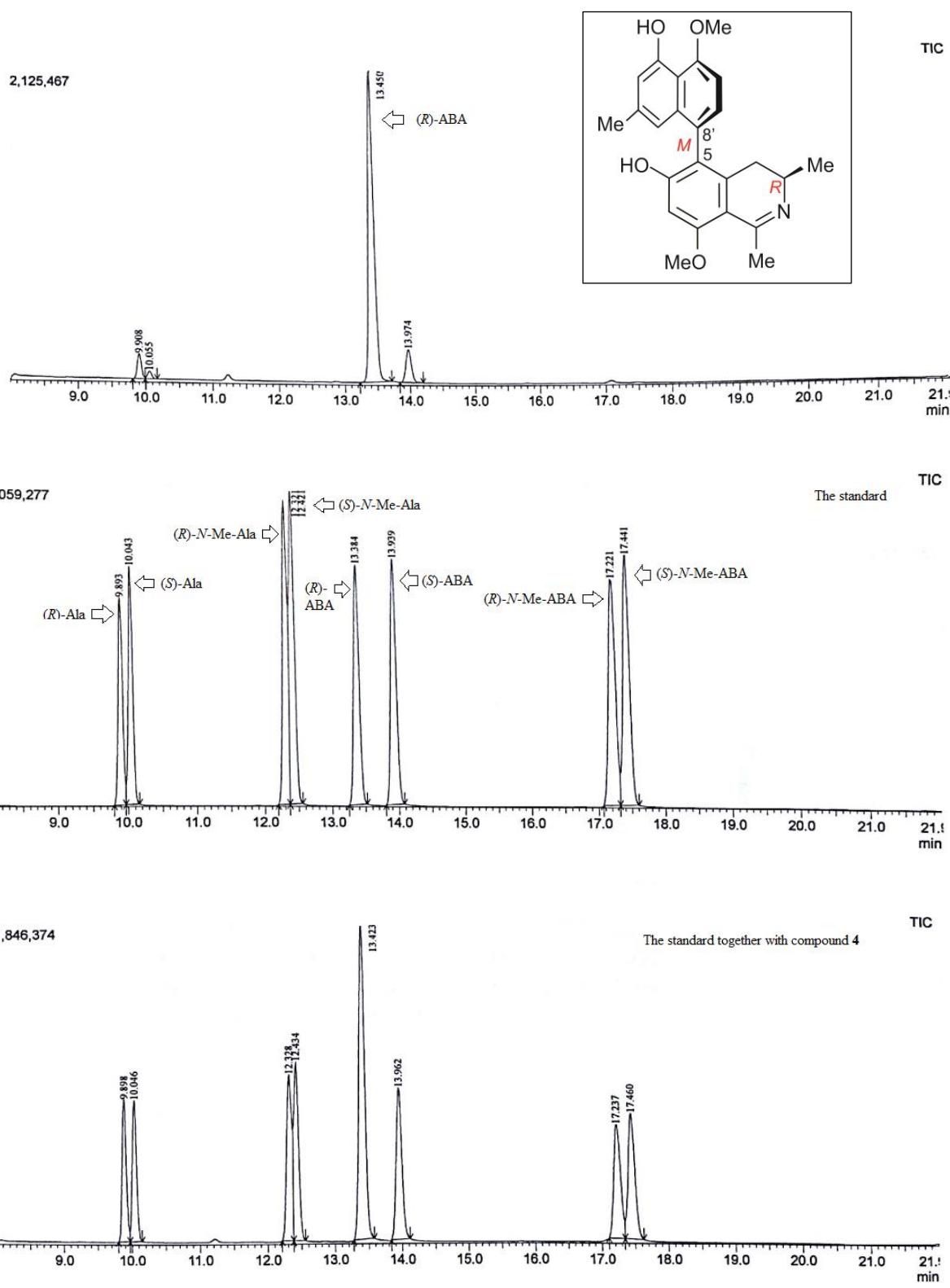


Figure S65. ECD spectrum of ancistrolilikokine F (**11**).



Ala = Alanine

N-Me-Ala = N-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = N-Methyl-3-aminobutyric acid

Figure S66. Oxidative degradation products of ancistrolilikokine F (**11**).

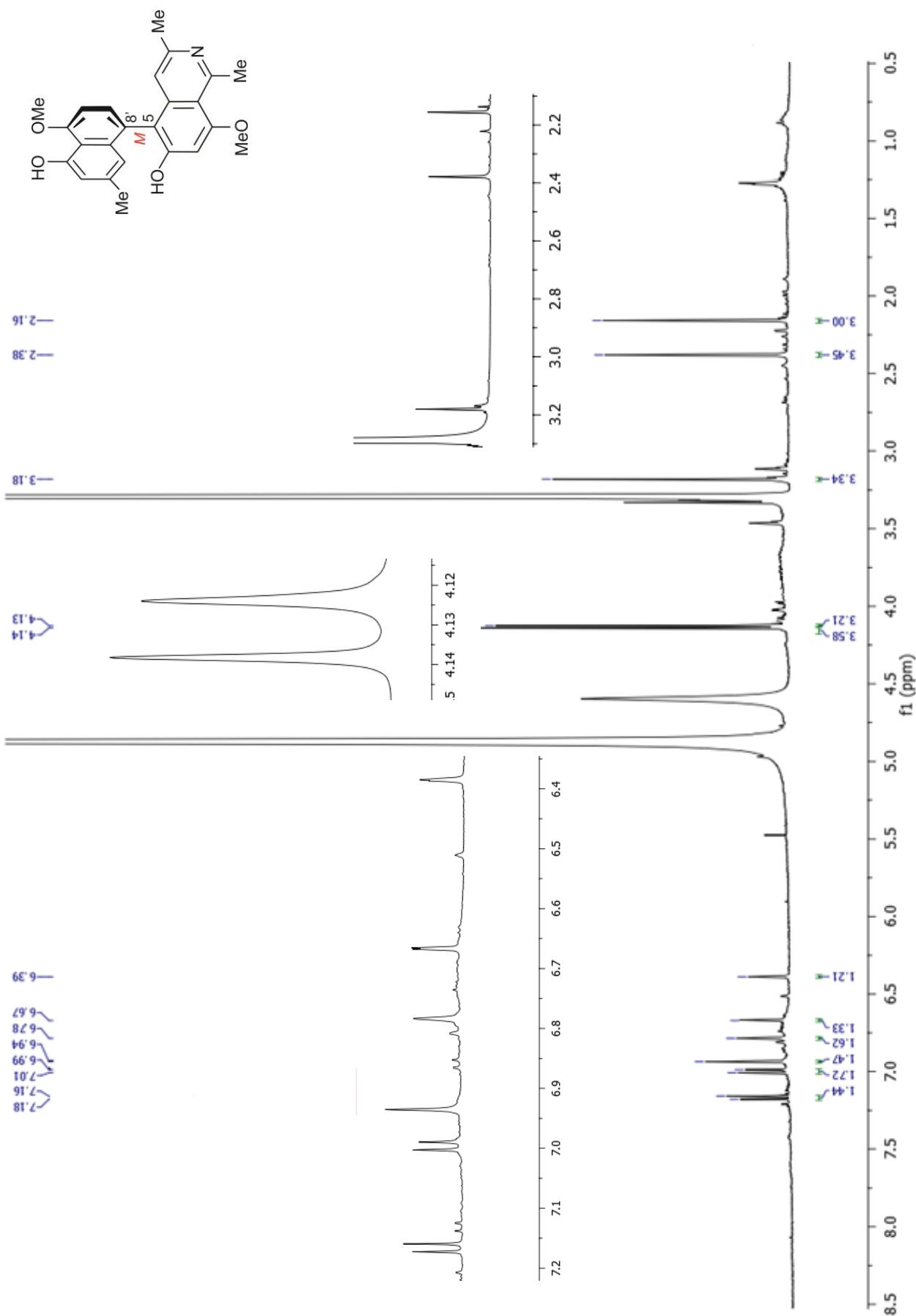


Figure S67. ^1H NMR spectrum of ancistrolikokine G (**12**).

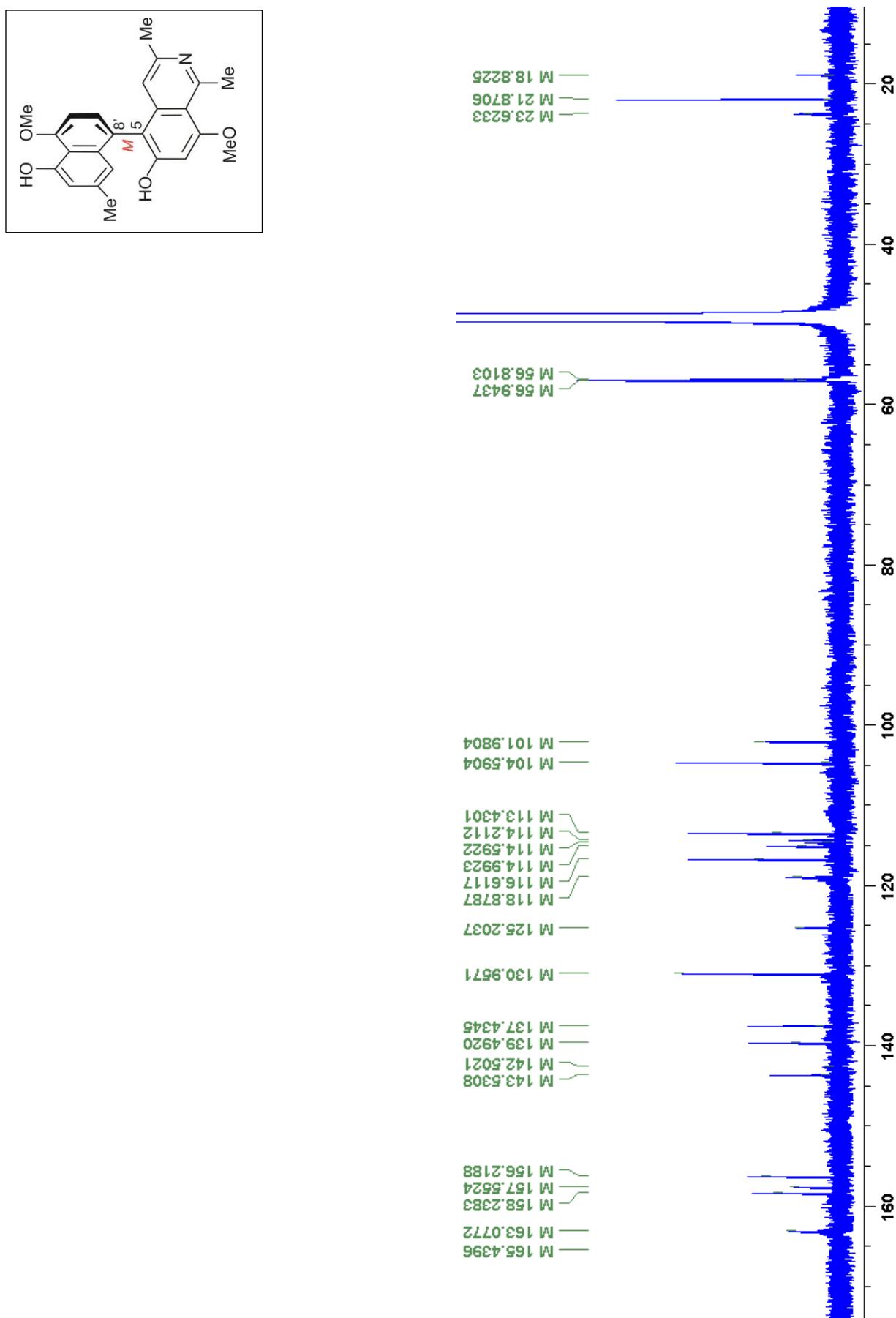


Figure S68. ^{13}C NMR spectrum of ancistrolilikokine G (**12**).

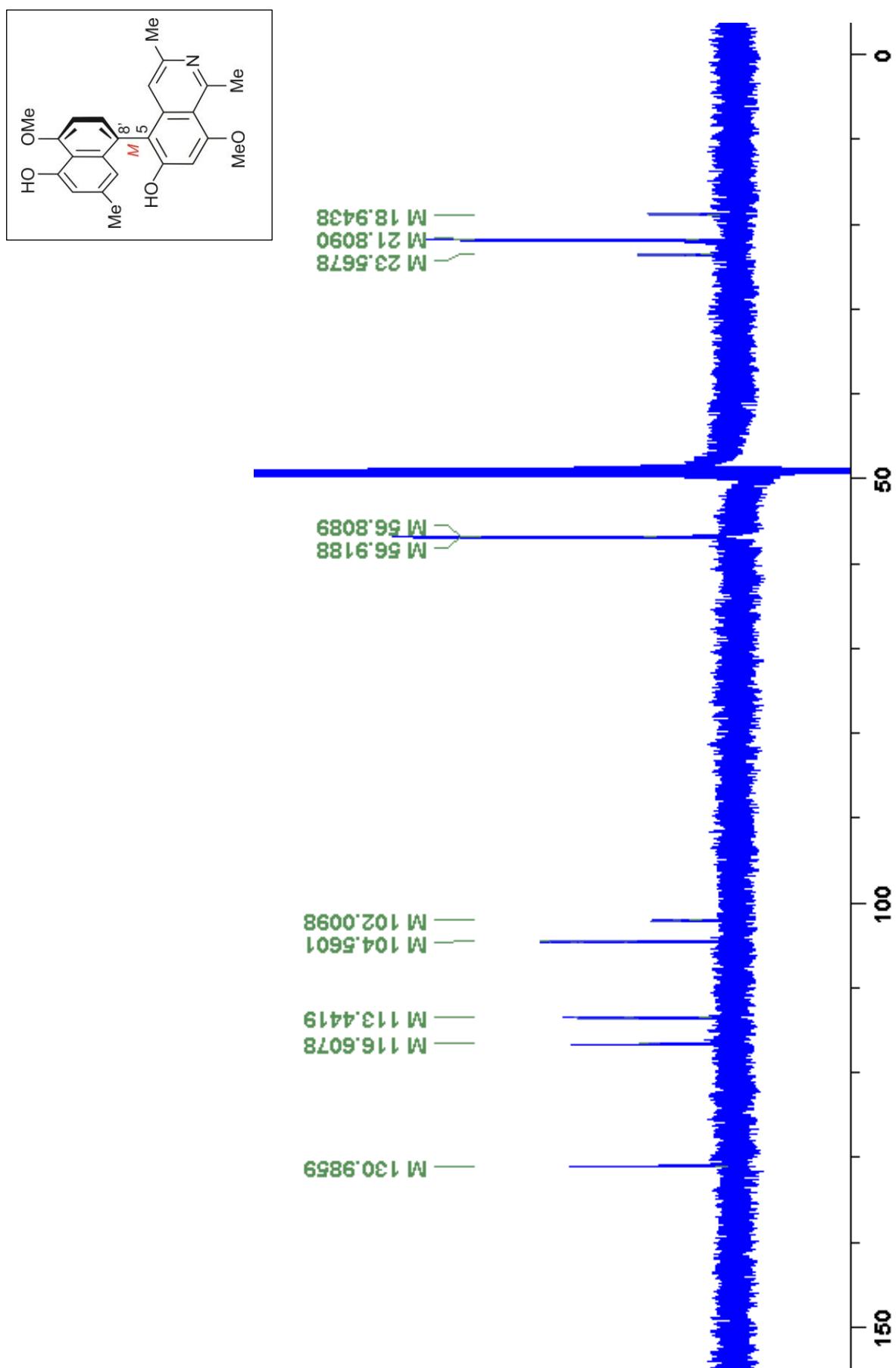


Figure S69. ^{13}C DEPT spectrum of ancistrolikokine G (**12**).

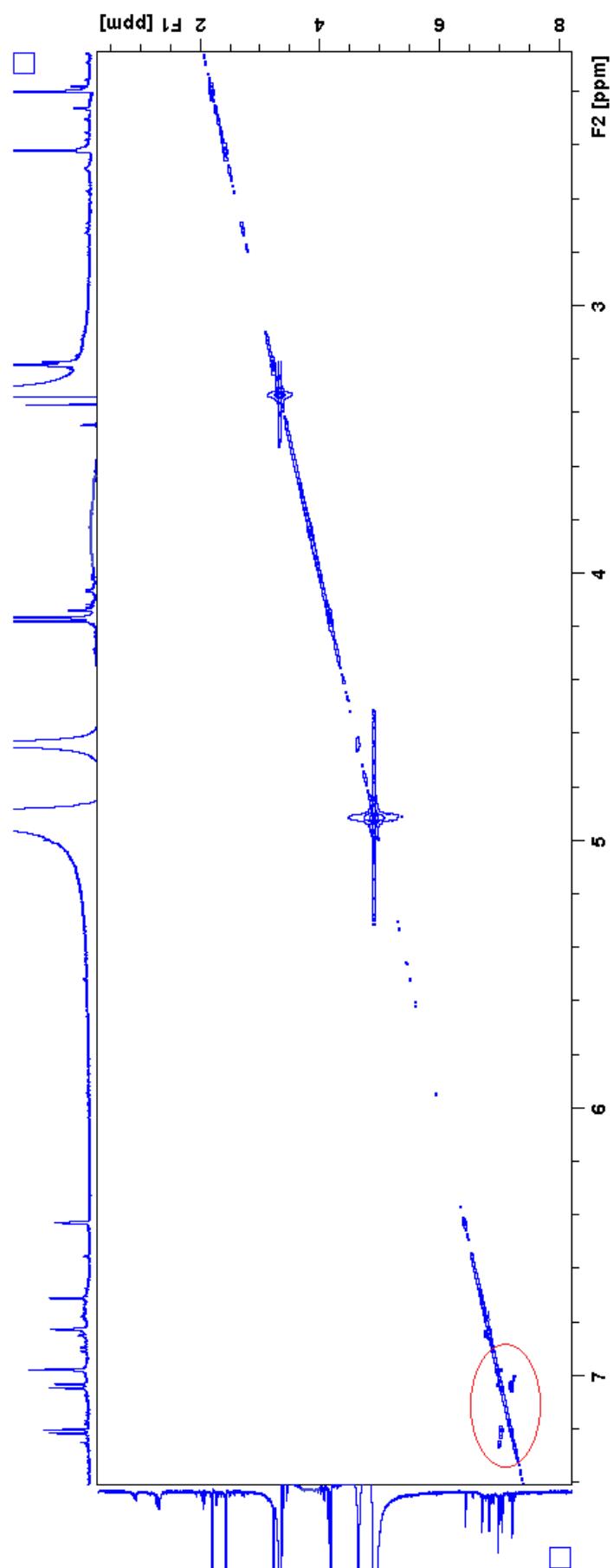
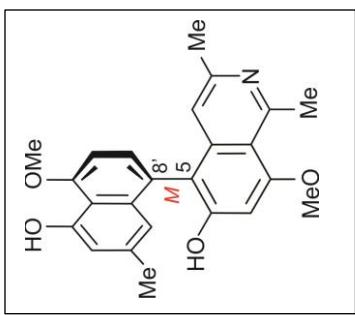


Figure S70. COSY spectrum of ancistrolilikokine G (**12**).

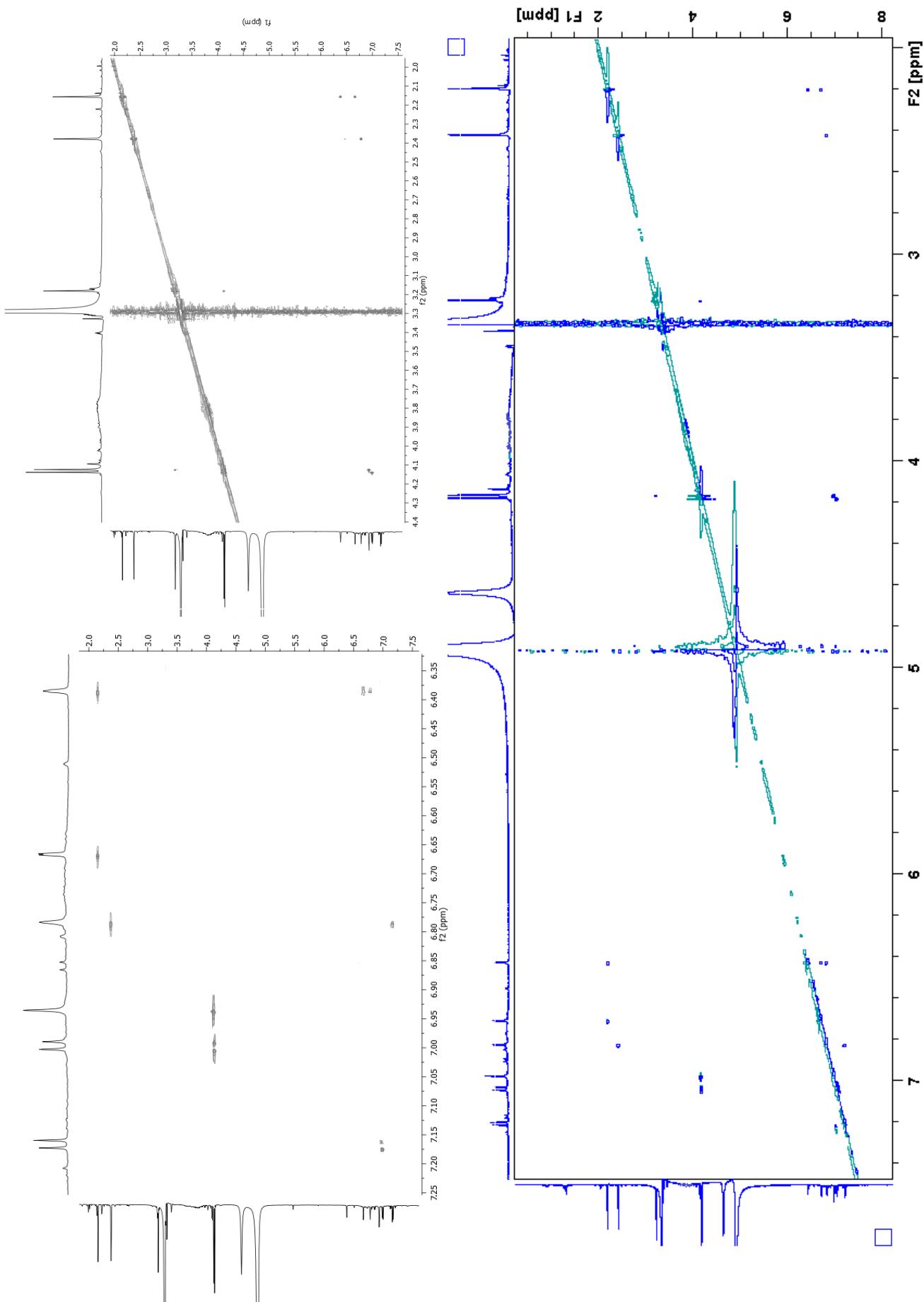


Figure S71. NOESY spectrum of ancistrolikokine G (**12**).

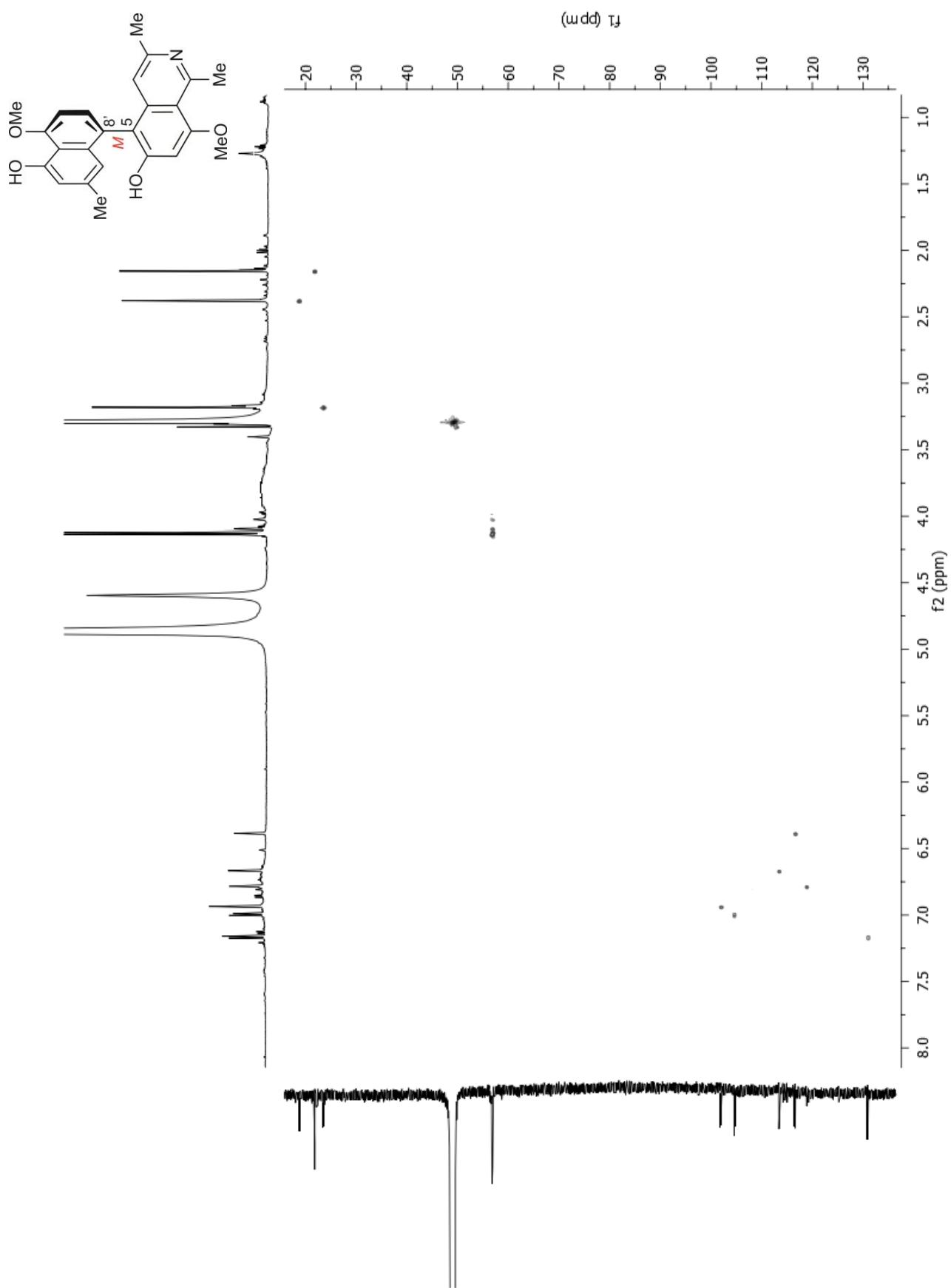


Figure S72. HSQC spectrum of ancistrolikokine G (**12**).

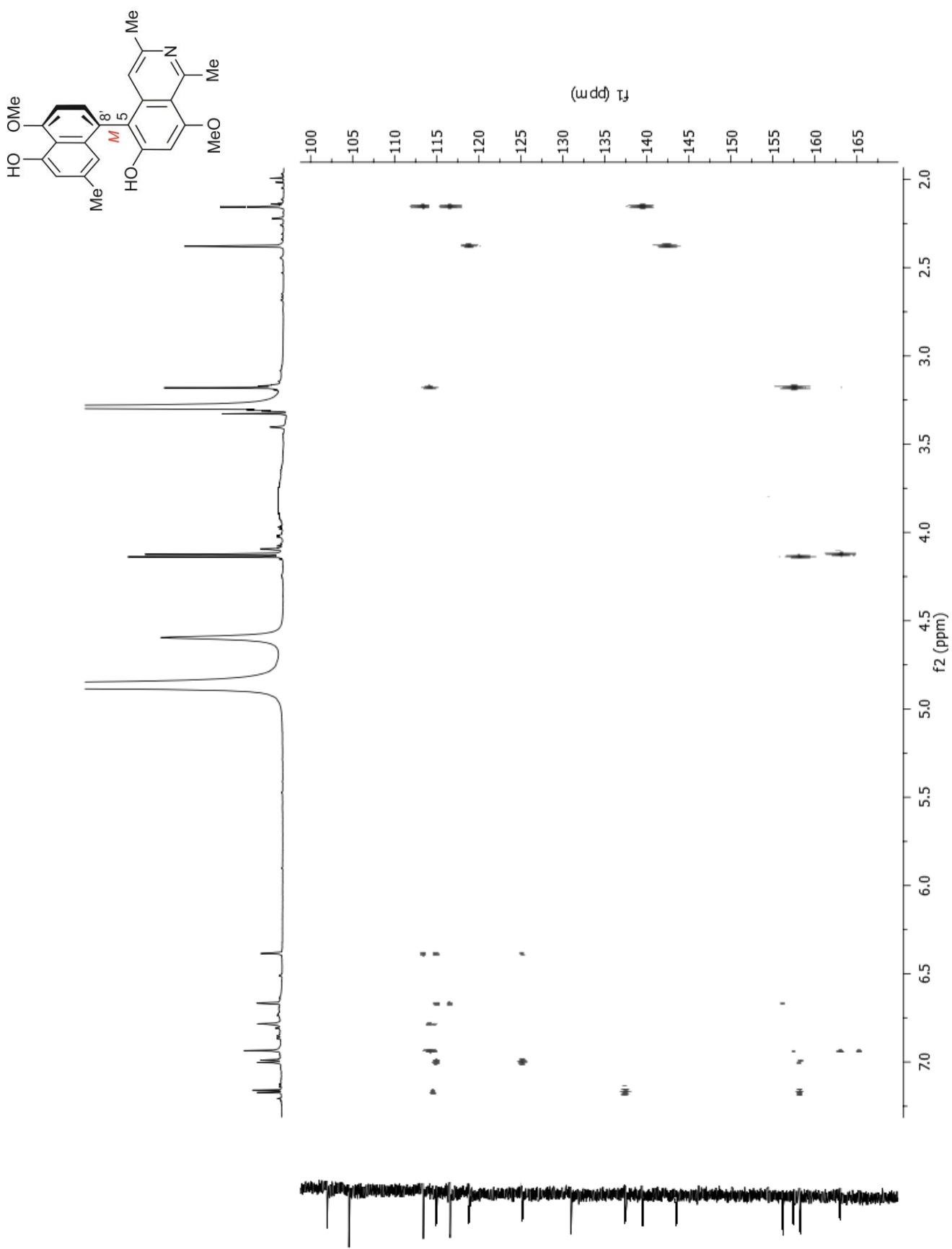


Figure S73. HMBC spectrum of ancistrolilikokine G (12).

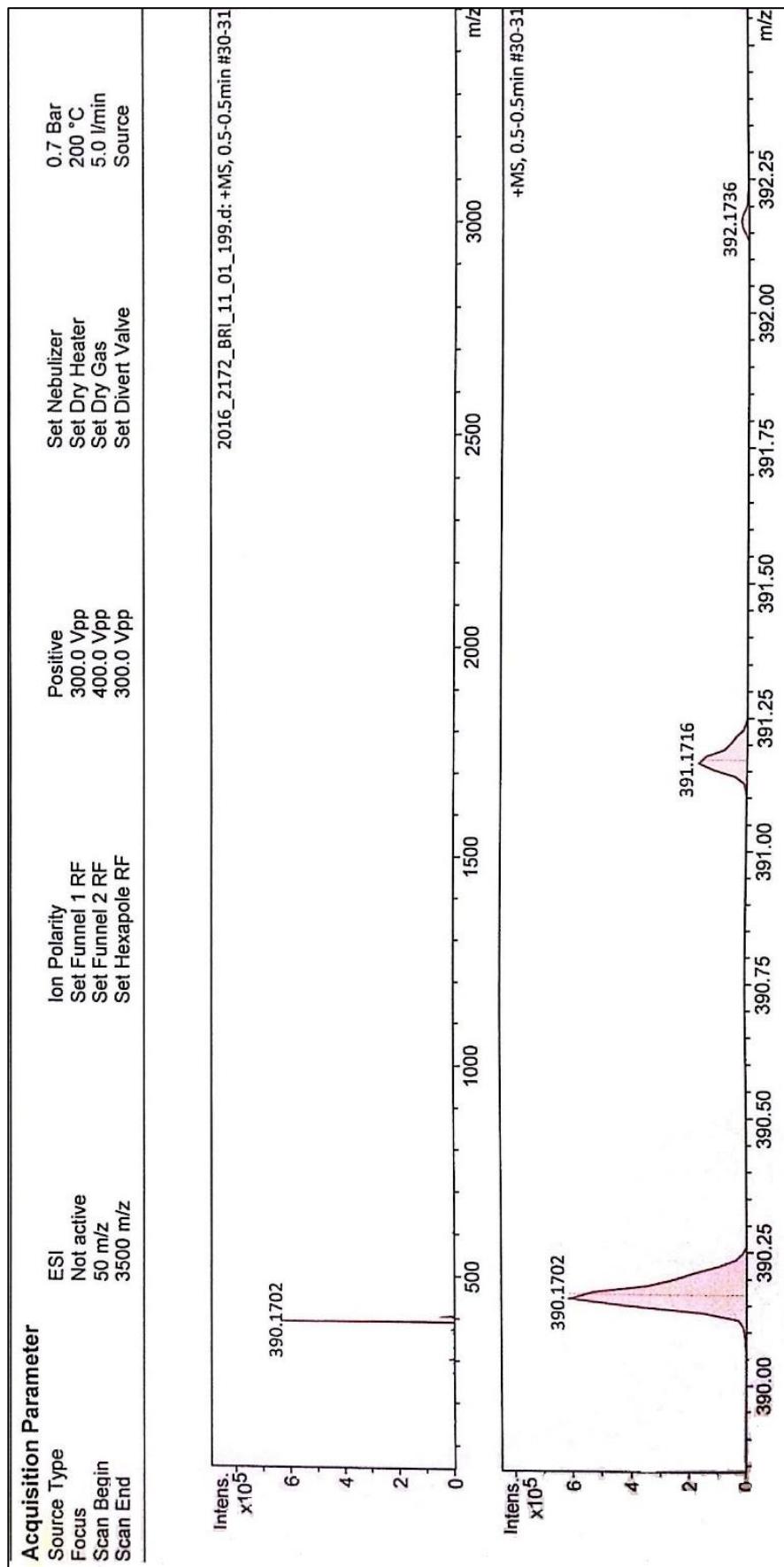
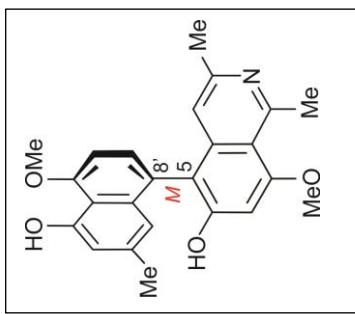


Figure S74. HRESI-MS spectrum of ancistrolikokine G (**12**).

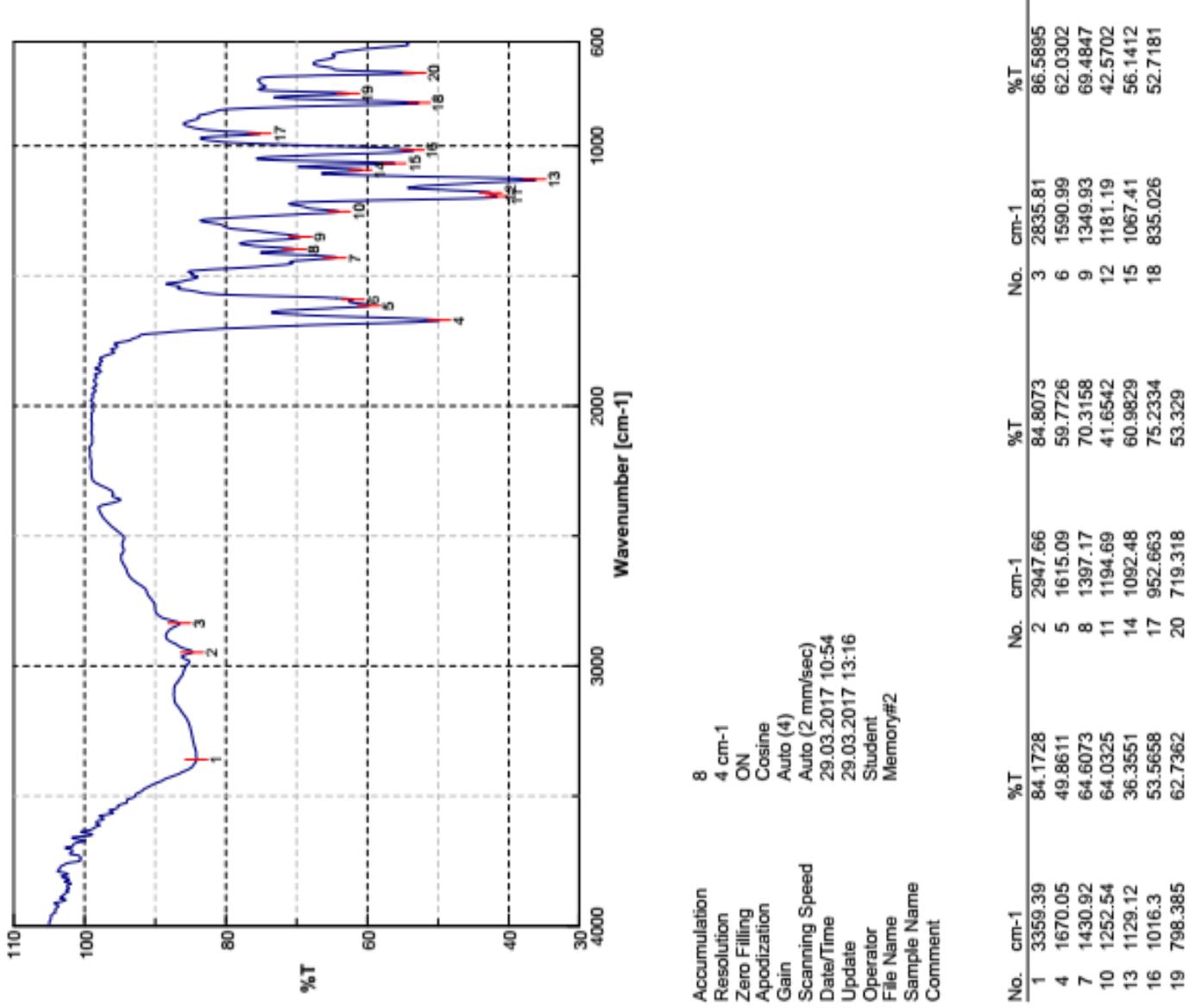


Figure S75. IR spectrum of ancistrolilikokine G (**12**).

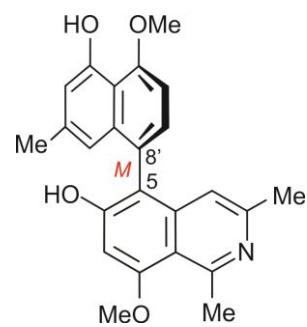
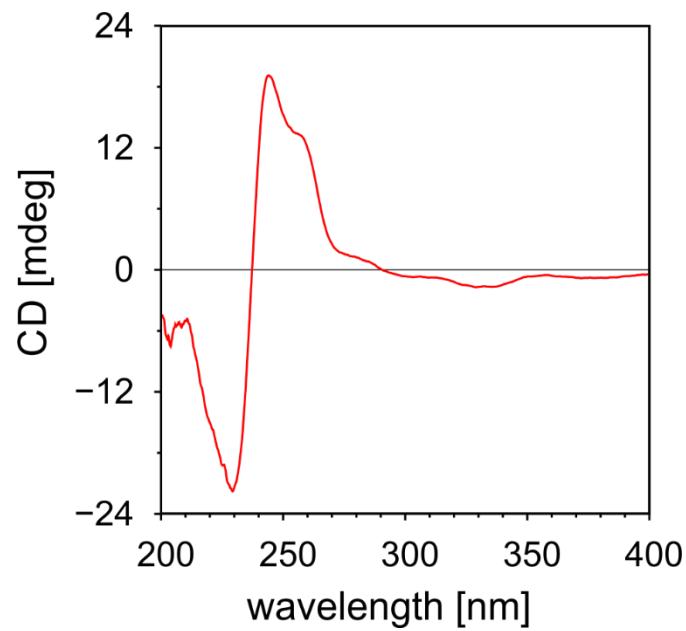


Figure S76. ECD spectrum of ancistrolilikokine G (**12**).

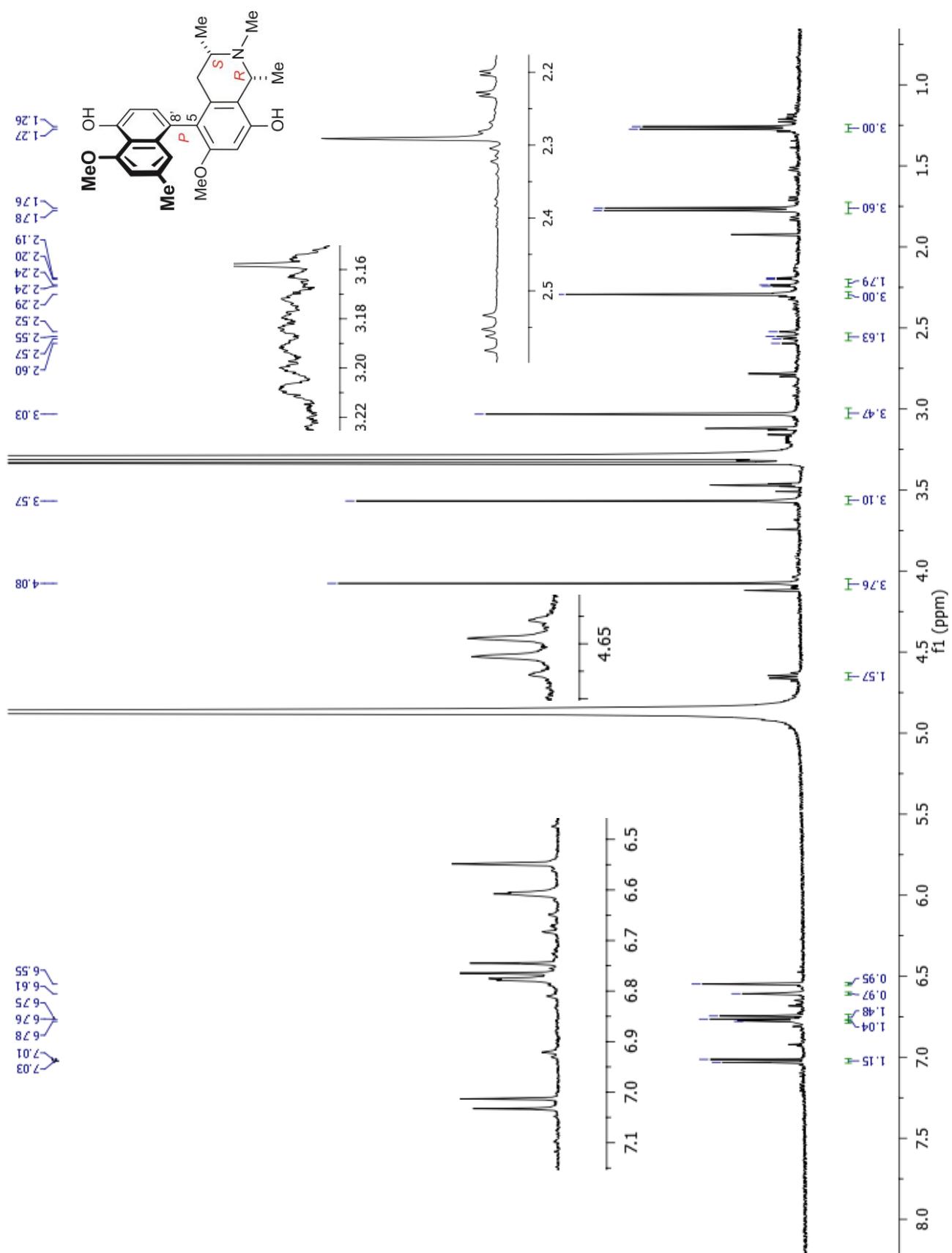


Figure S77. ^1H NMR spectrum of ancistrolikokine H (**15**).

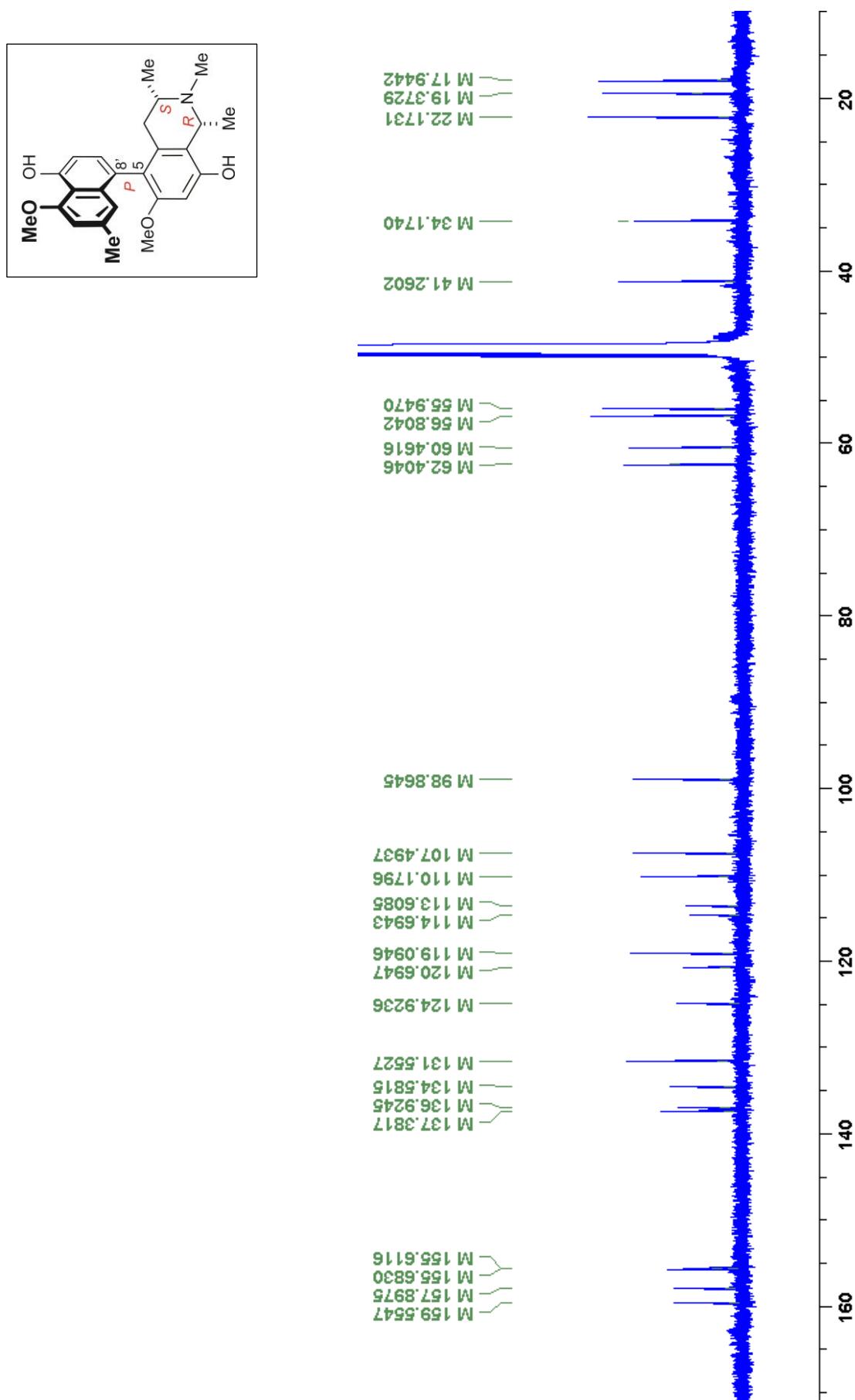


Figure S78. ^{13}C NMR spectrum of ancistrolilikokine H (**15**).

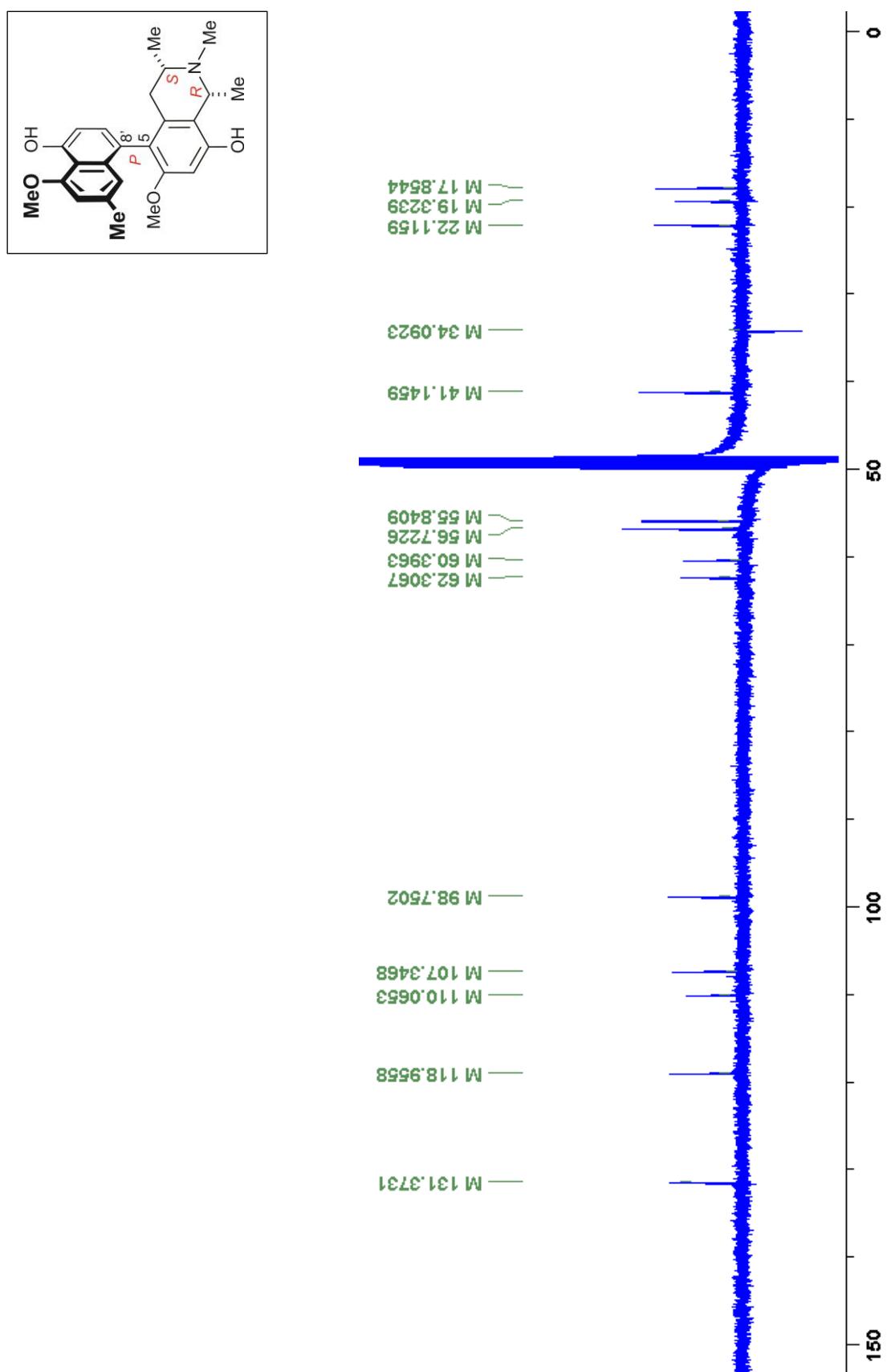


Figure S79. ^{13}C DEPT spectrum of ancistrolilikokine H (15).

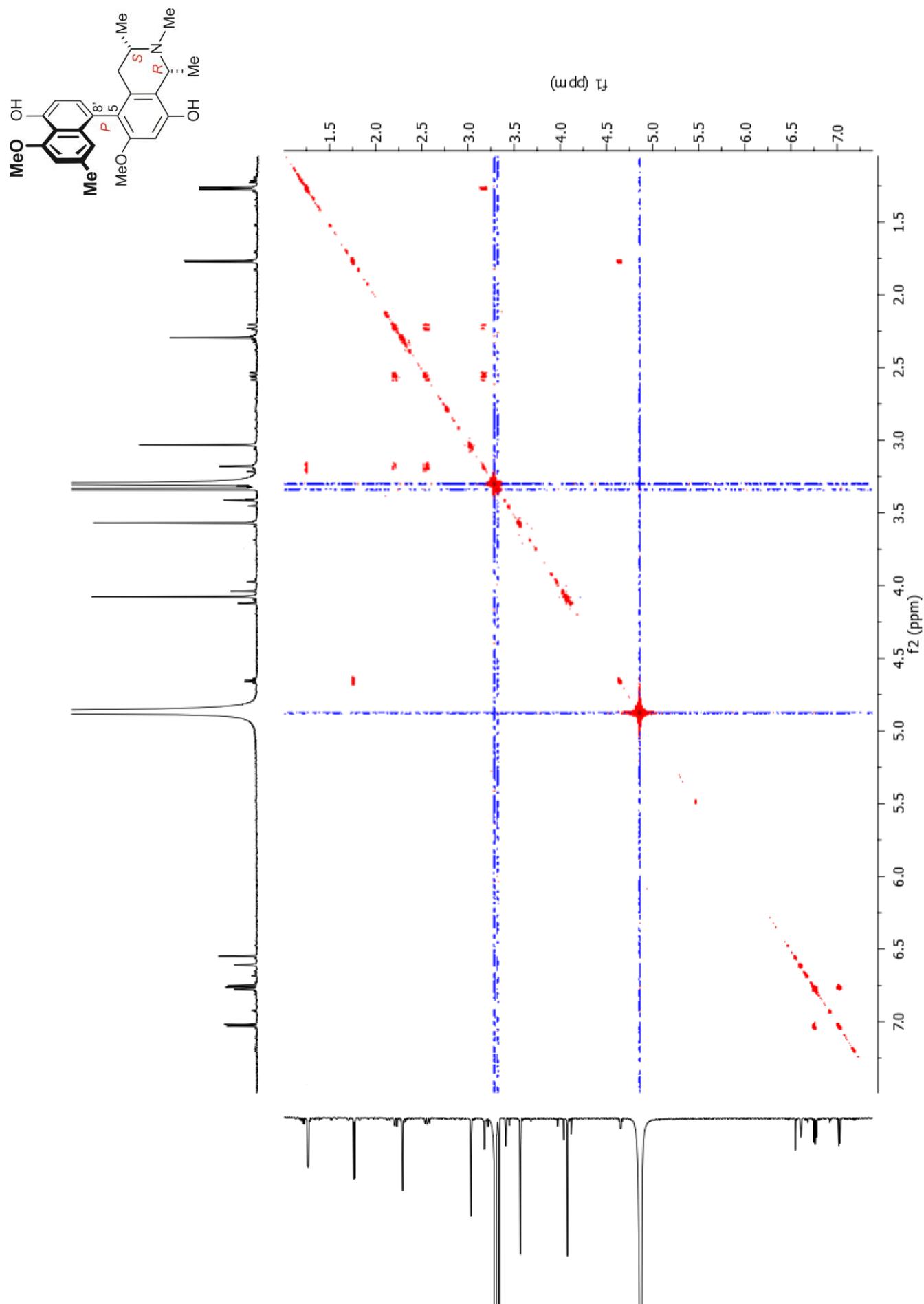


Figure S80. COSY spectrum of ancistrolikokine H (**15**).

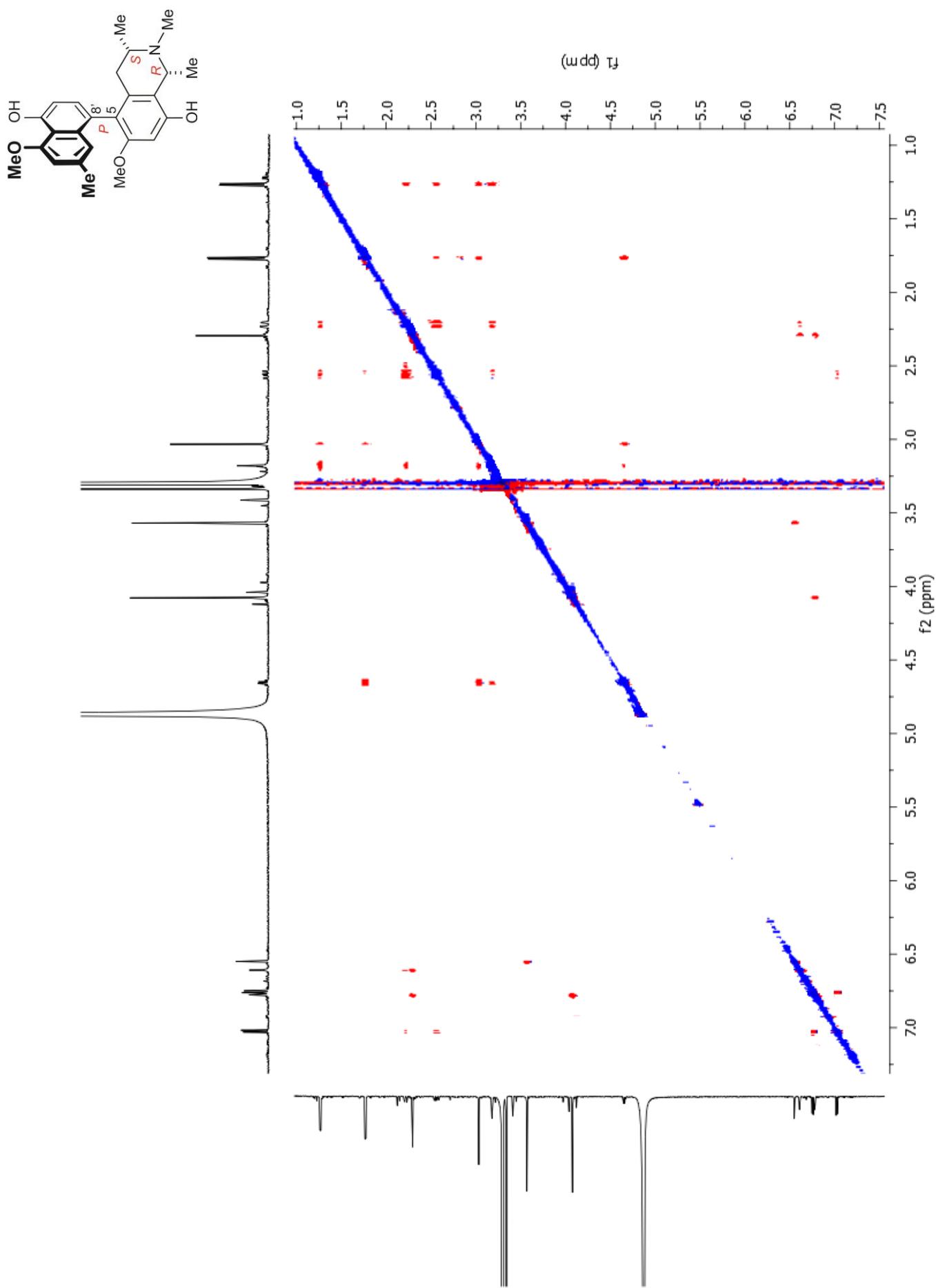


Figure S81. NOESY spectrum of ancistrolilikokine H (**15**).

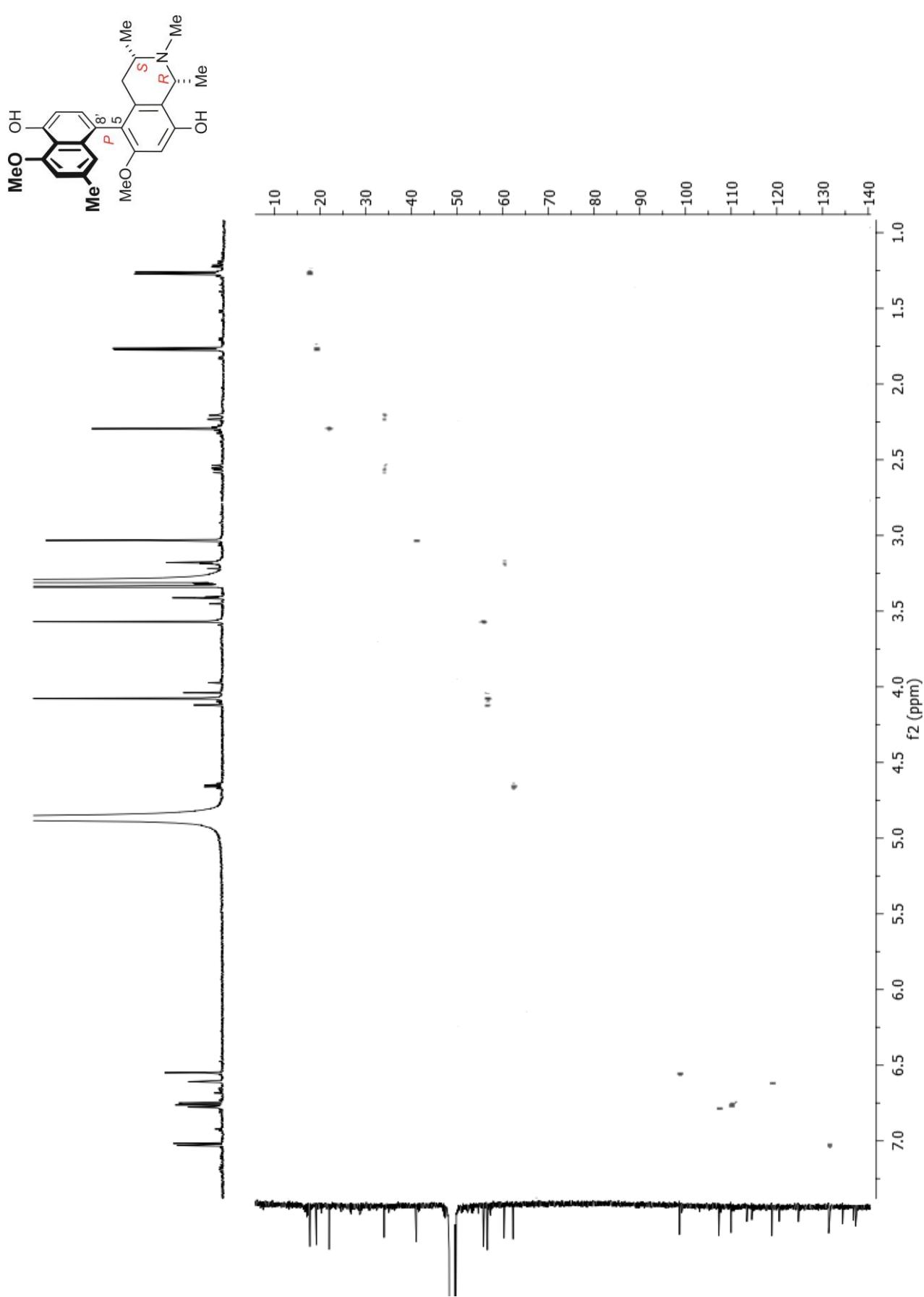


Figure S82. HSQC spectrum of ancistrolilikokine H (**15**).

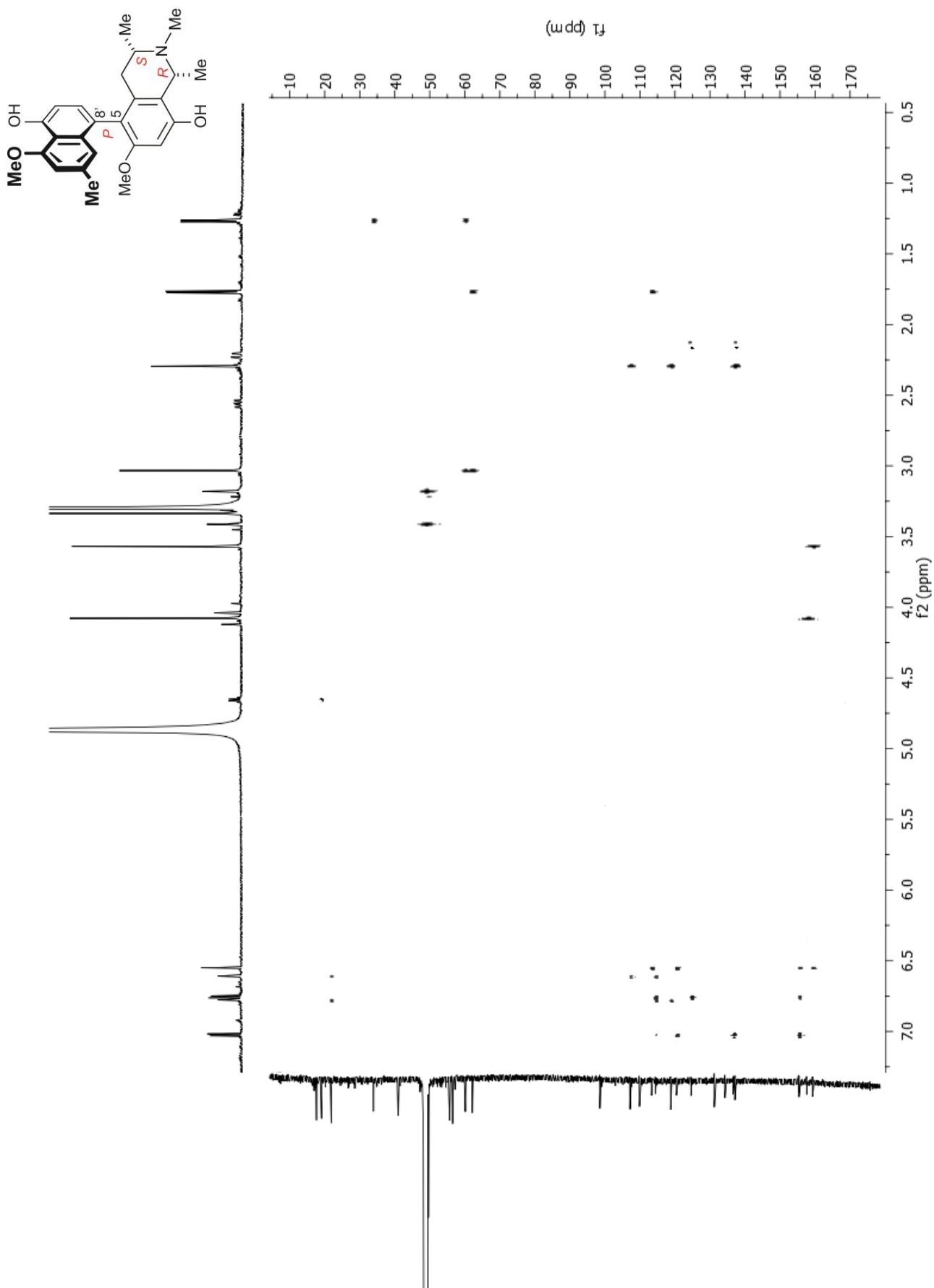


Figure S83. HMBC spectrum of ancistrolilikokine H (**15**).

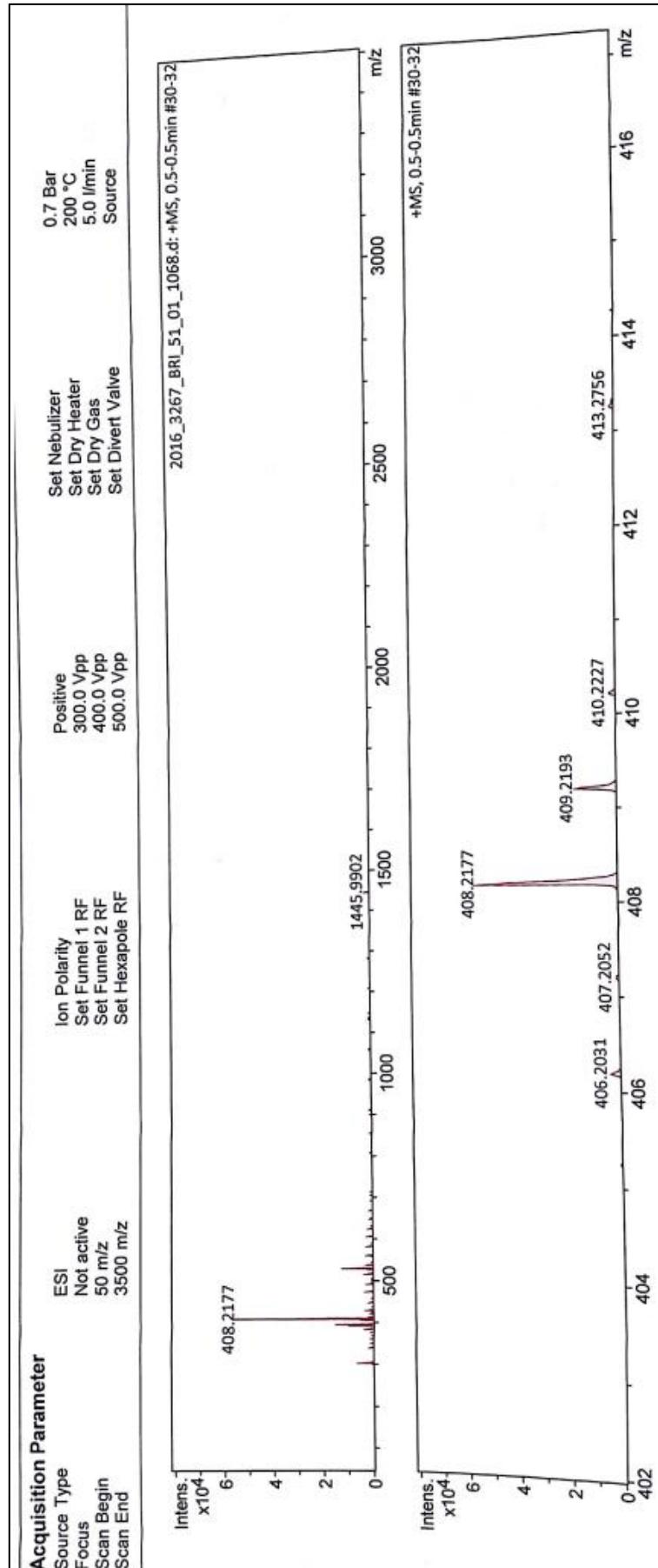
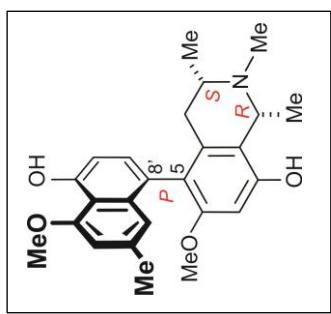


Figure S84. HRESI-MS spectrum of ancistrolilikokine H (**15**).

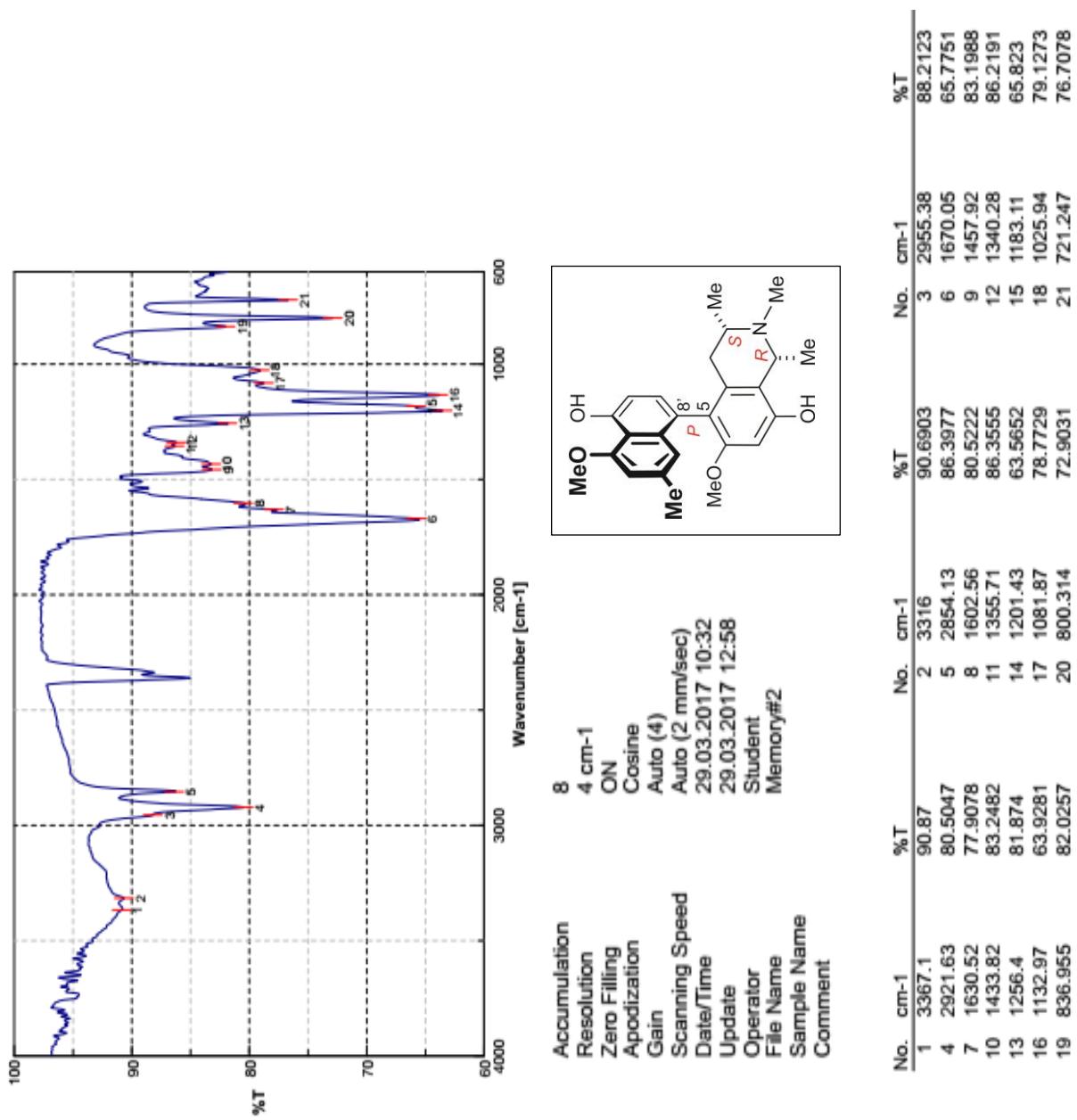


Figure S85. IR spectrum of ancistrolilikokine H (**15**).

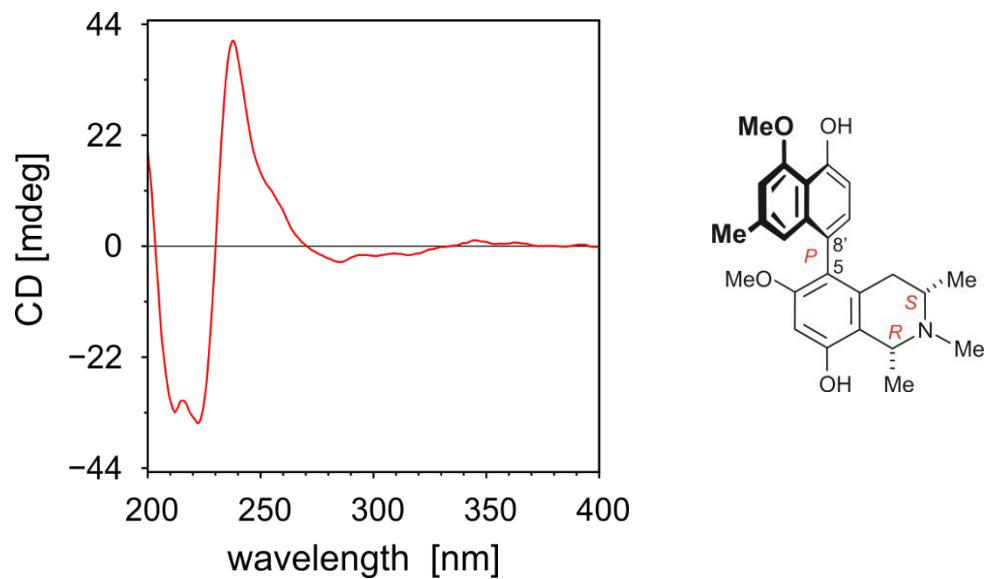
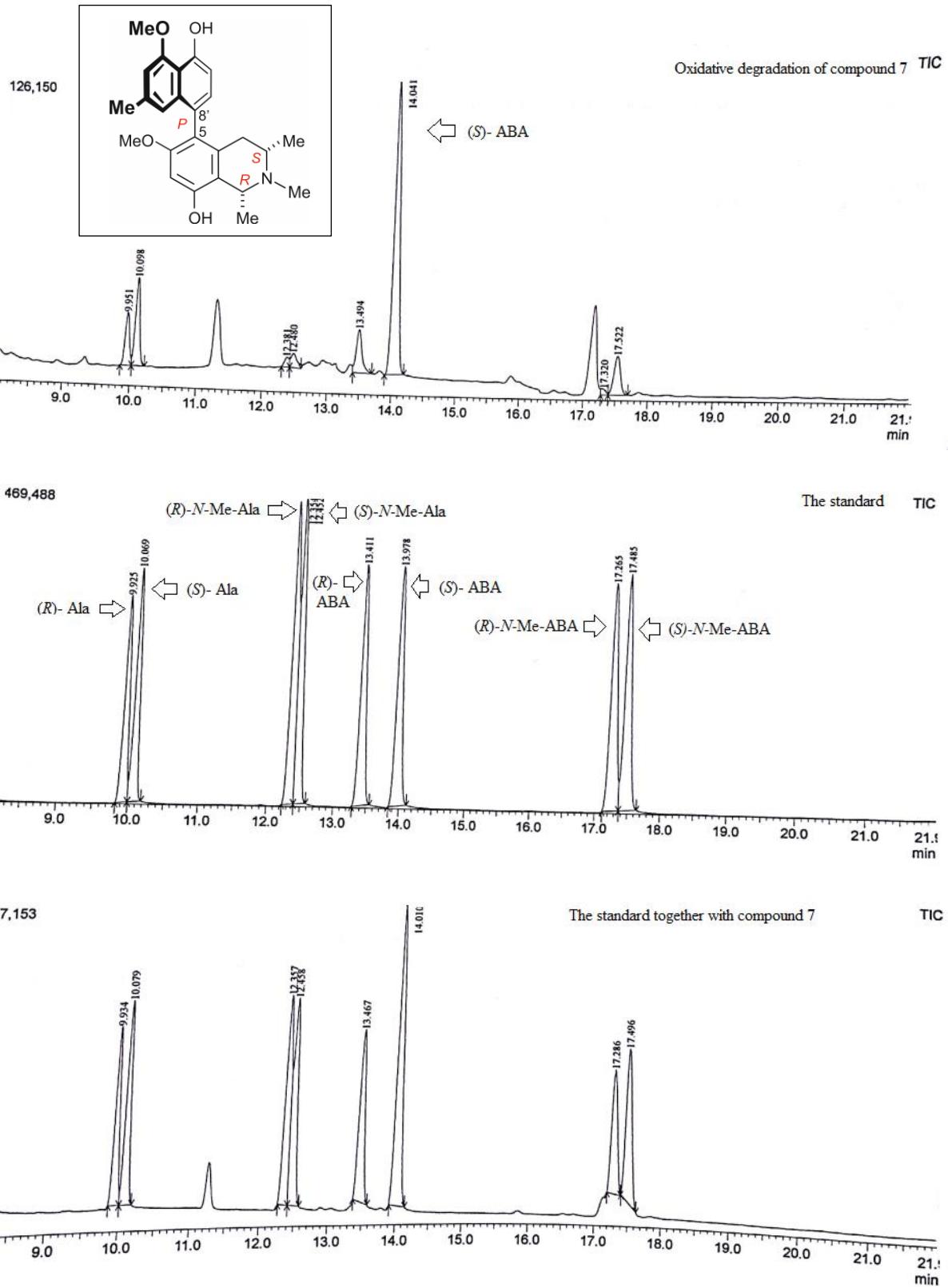


Figure S86. ECD spectrum of ancistrolilikokine H (**15**).



Ala = Alanine

N-Me-Ala = *N*-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = *N*-Methyl-3-aminobutyric acid

Figure S87. Oxidative degradation products of ancistrolilikokine H (**15**).

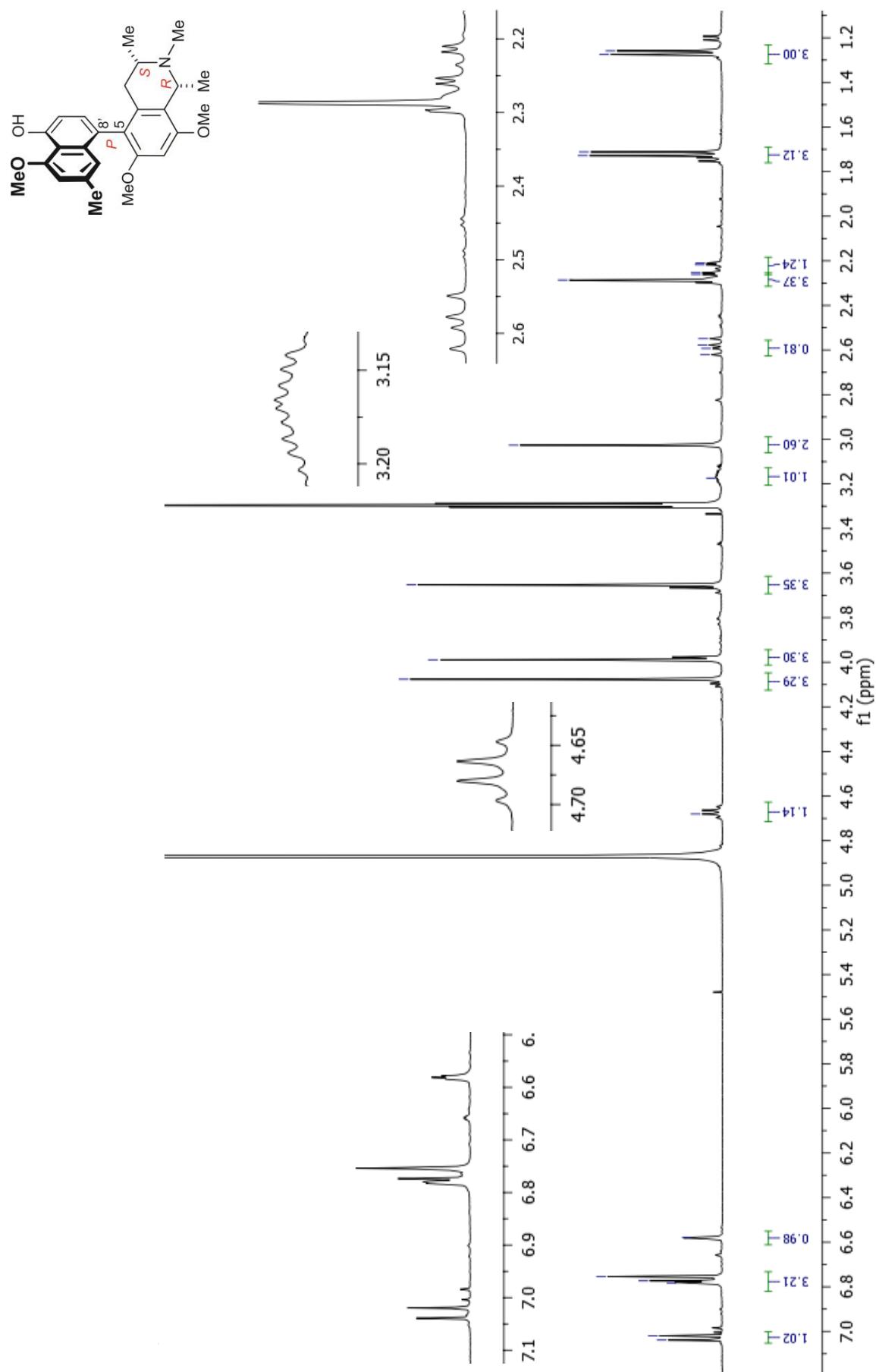
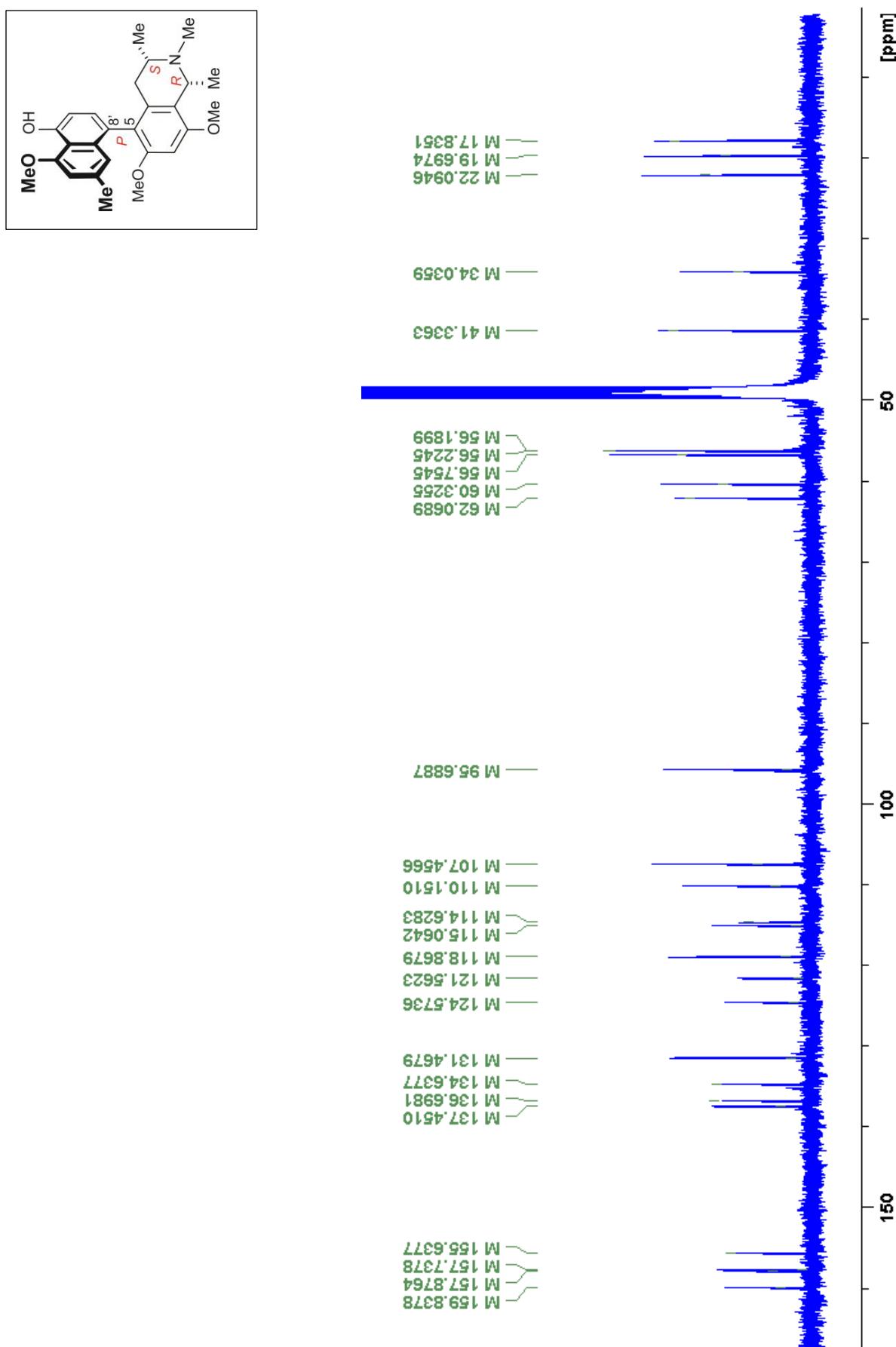


Figure S88. ¹H NMR spectrum of ancistrolilikokine H₂ (**16**).



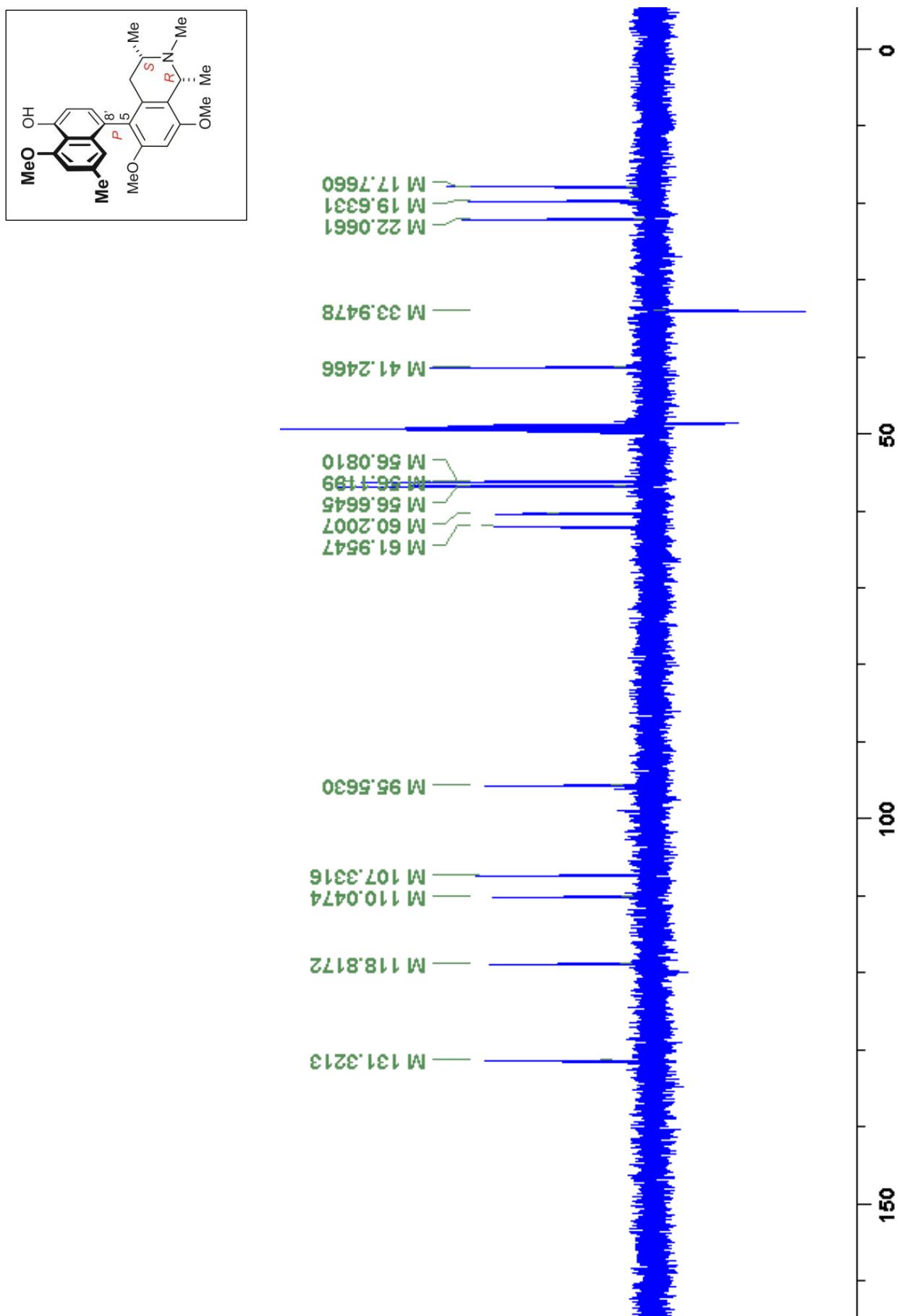


Figure S90. ¹³C DEPT spectrum of ancistrolilikokine H₂ (**16**).

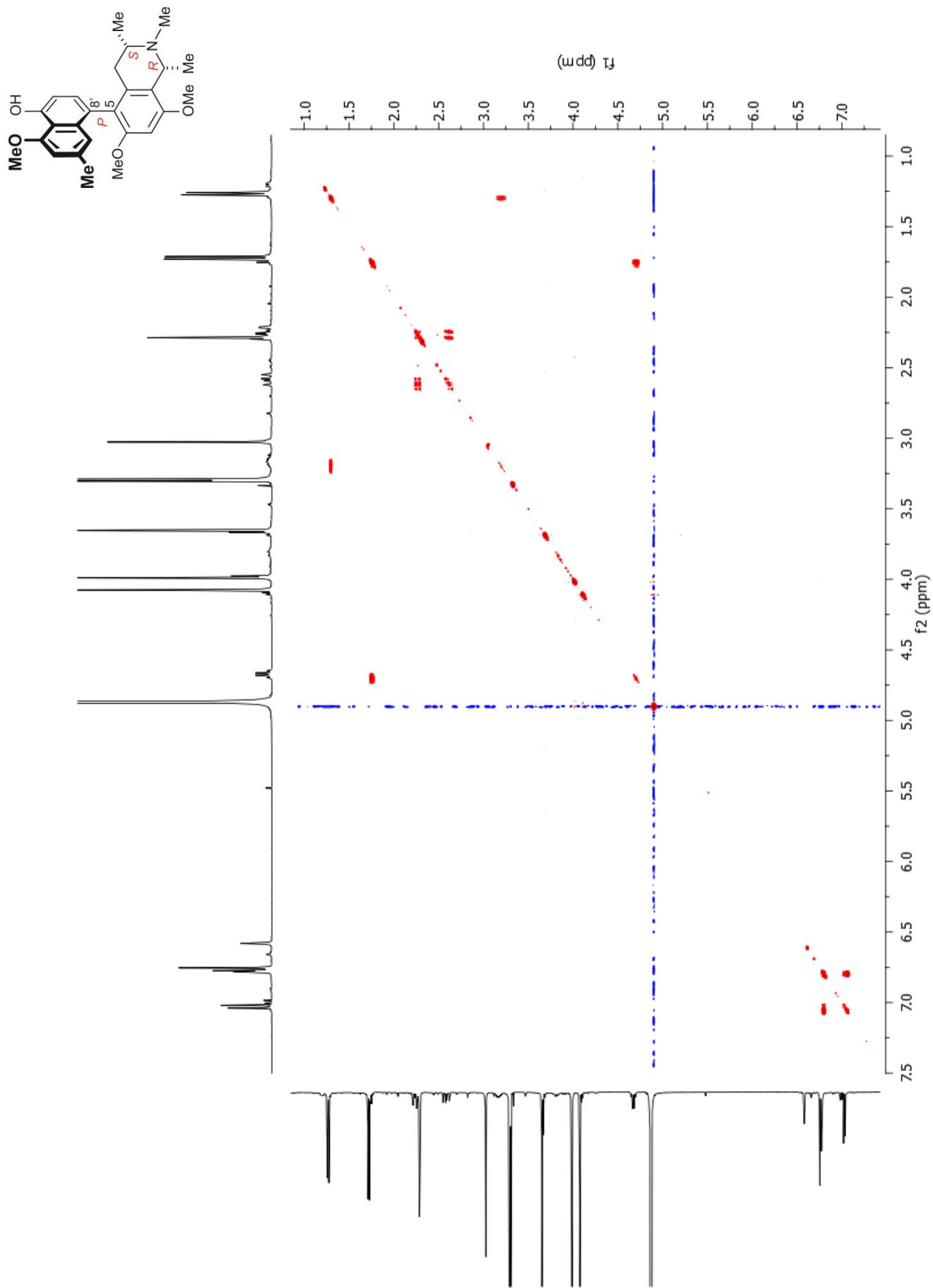


Figure S91. COSY spectrum of ancistrolikokine H₂ (**16**).

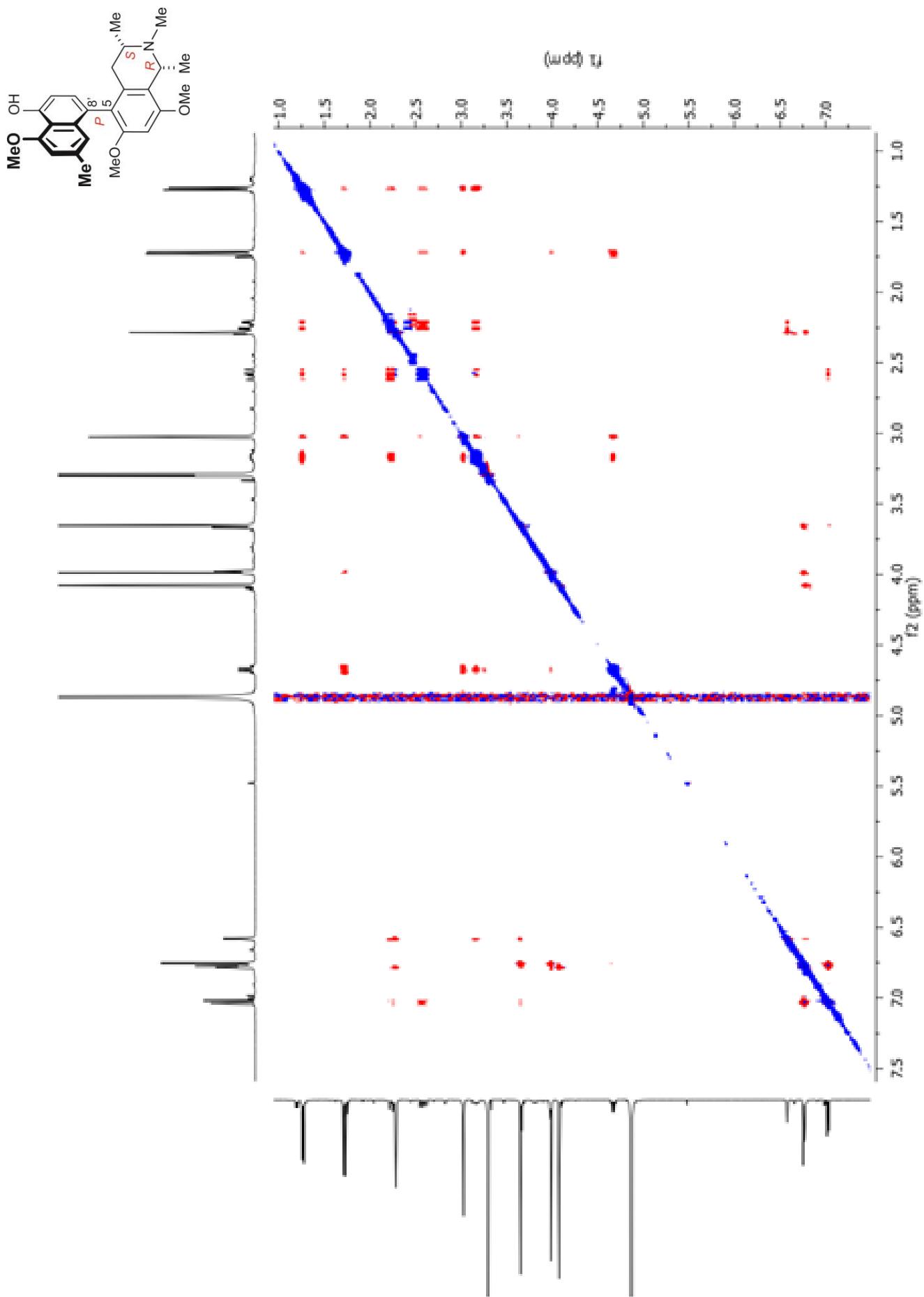


Figure S92. NOESY spectrum of ancistrolilikokine H_2 (**16**).

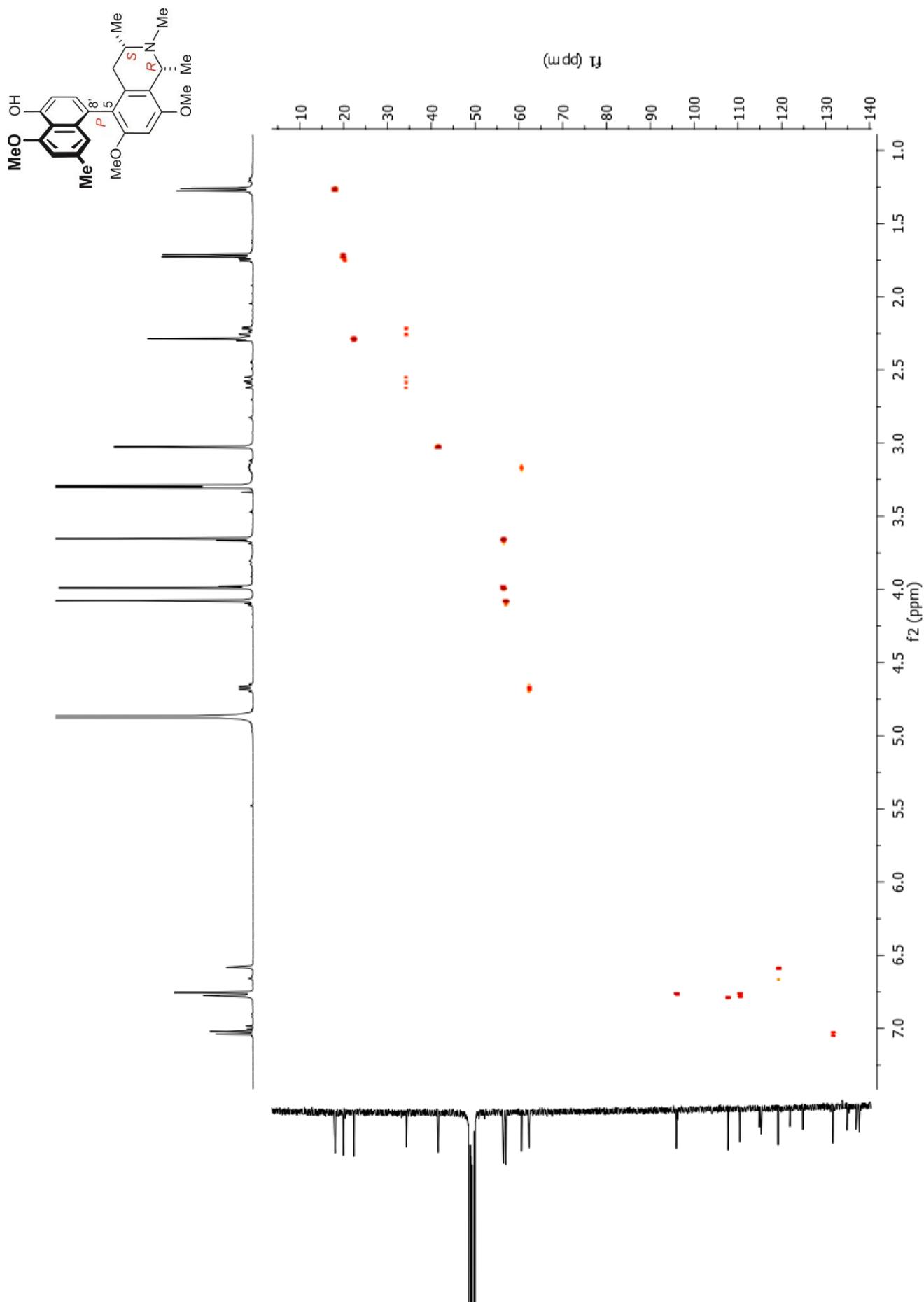


Figure S93. HSQC spectrum of ancistrolikokine H₂ (**16**).

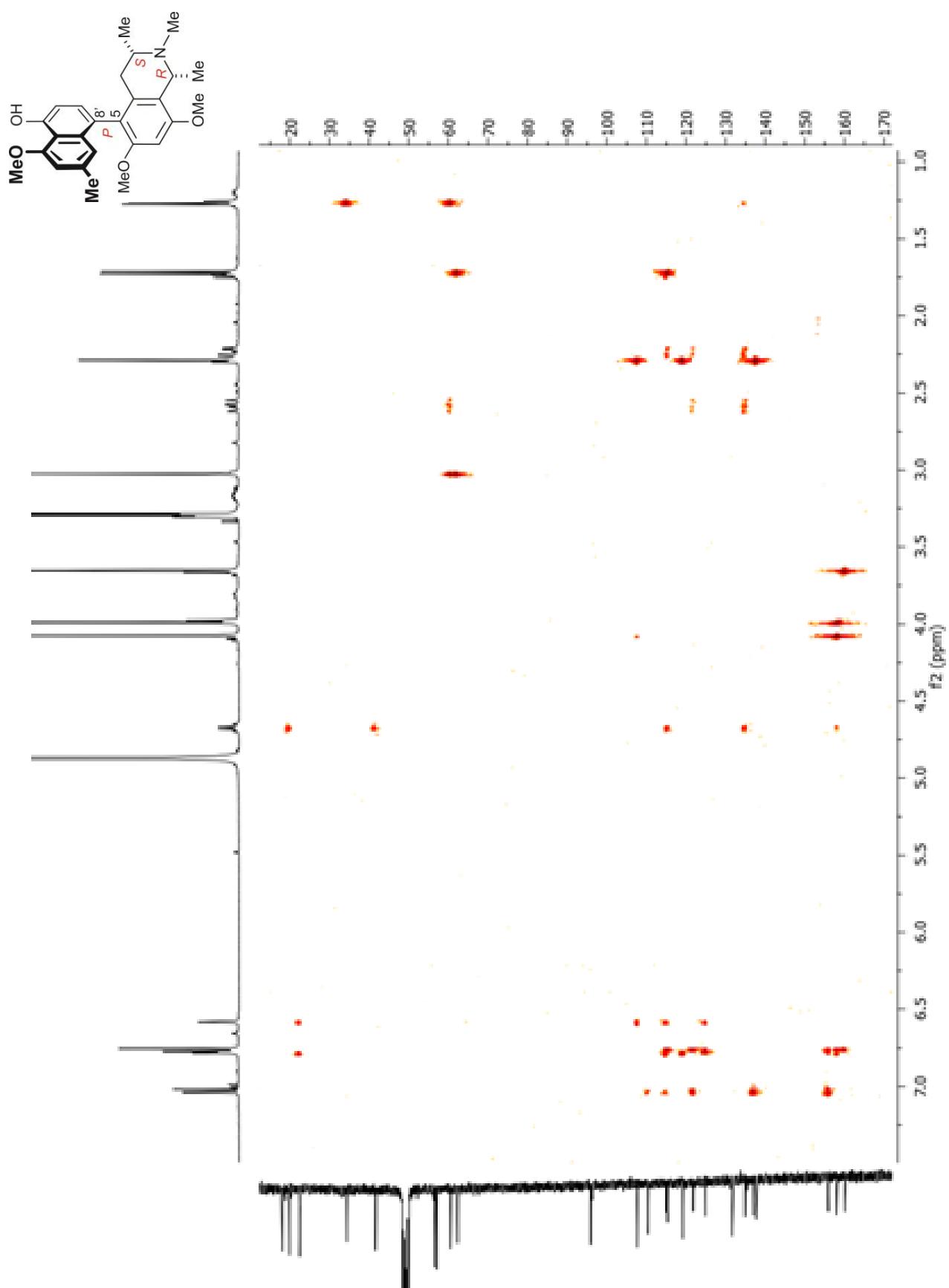


Figure S94. HMBC spectrum of ancistrolilikokine H₂ (**16**).

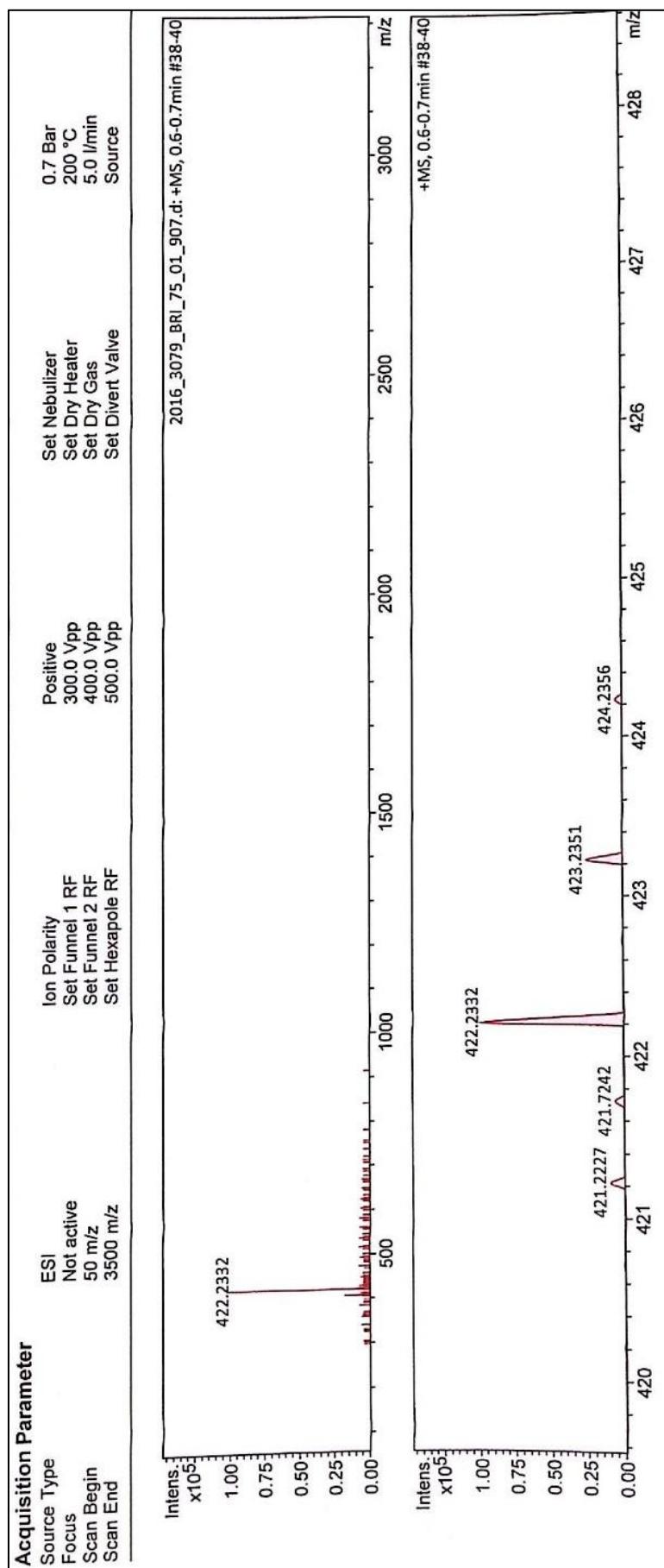
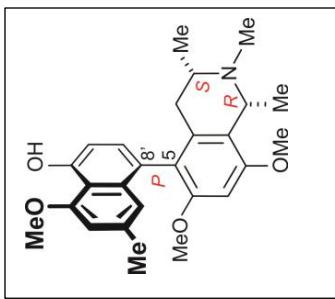


Figure S95. HRESI-MS spectrum of ancistrolilikokine H₂ (**16**).

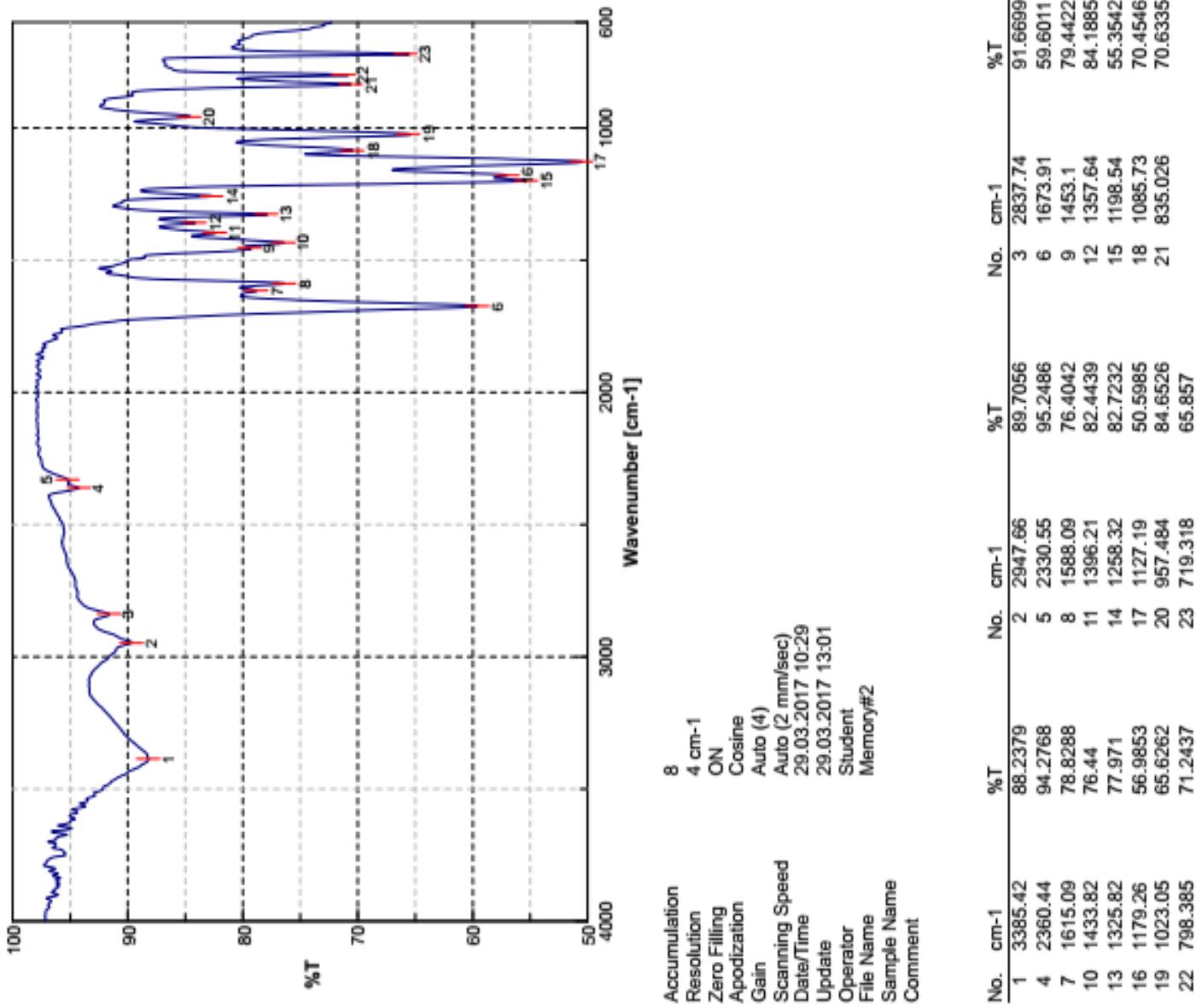


Figure S96. IR spectrum of ancistrolilikokine H₂ (**16**).

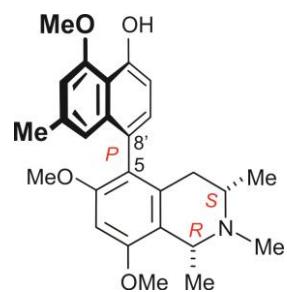
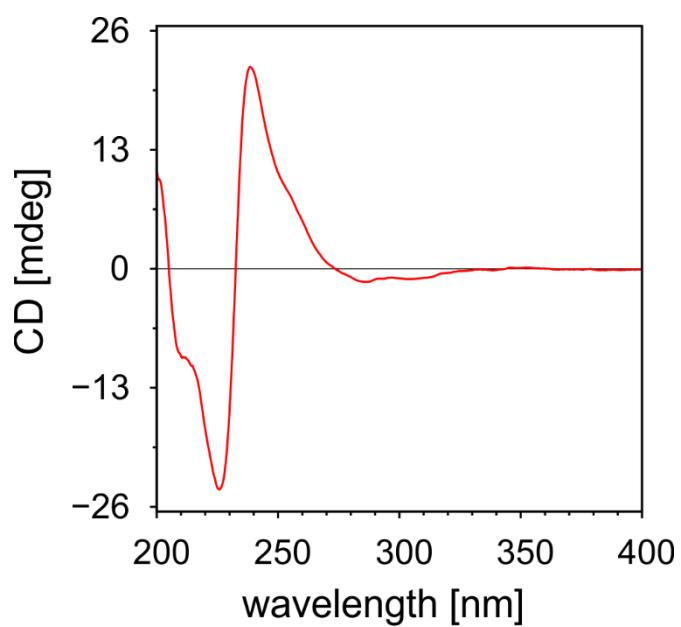
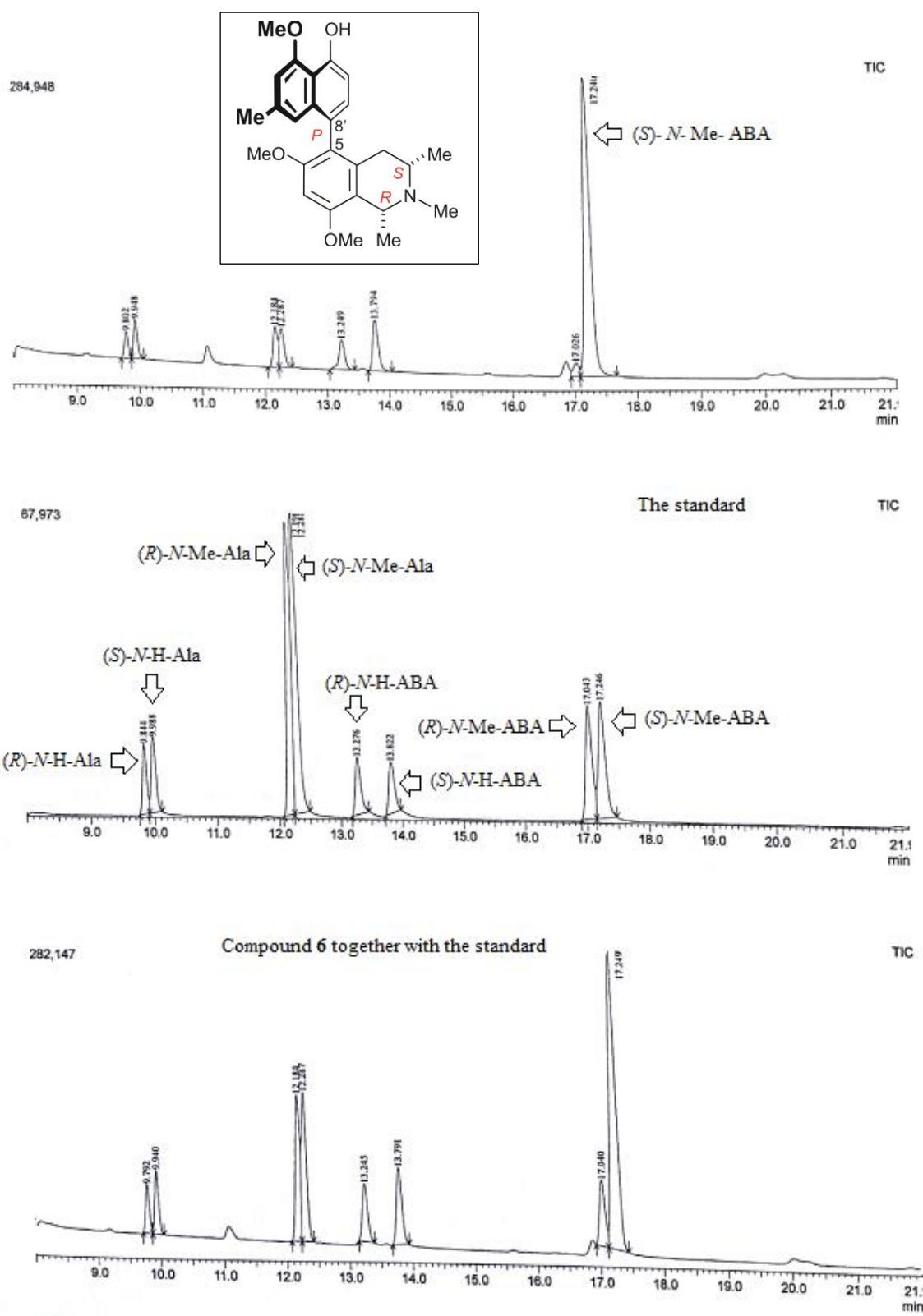


Figure S97. ECD spectrum of ancistrolilikokine H₂ (**16**).



Ala = Alanine

N-Me-Ala = *N*-Methylalanine

ABA = 3-Aminobutyric acid

N-Me-ABA = *N*-Methyl-3-aminobutyric acid

Figure S98. Oxidative degradation products of ancistrolilikokine H₂ (**16**).