

Tirucallane-Type Triterpenoids from *Dysoxylum lenticellatum*

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S1-S8. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin A (**1**) in CDCl₃

S9-S17. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin B (**2**) in CDCl₃

S18-S25. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin C (**3**) in CDCl₃

S26-S33. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin D (**4**) in CDCl₃

S34-S41. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin E (**5**) in CDCl₃

S42-S49. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin F (**6**) in CDCl₃

S50-S57. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin G (**7**) in CDCl₃

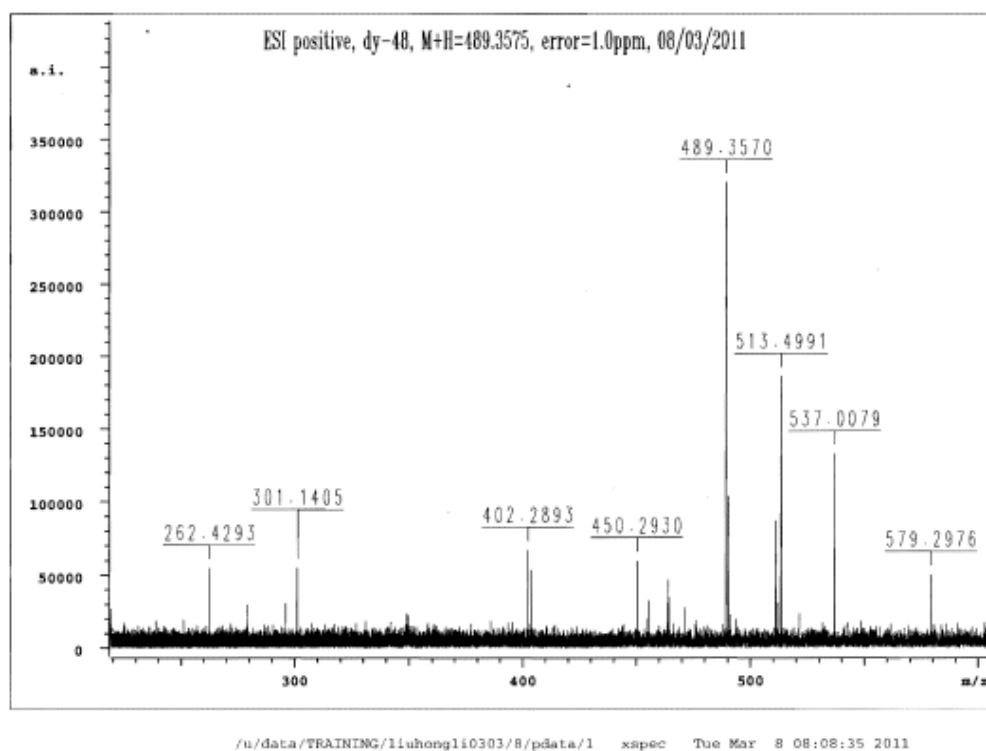
S58-S65. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin H (**9**) in C₅D₅N

S66-S73. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin I (**10**) in CDCl₃

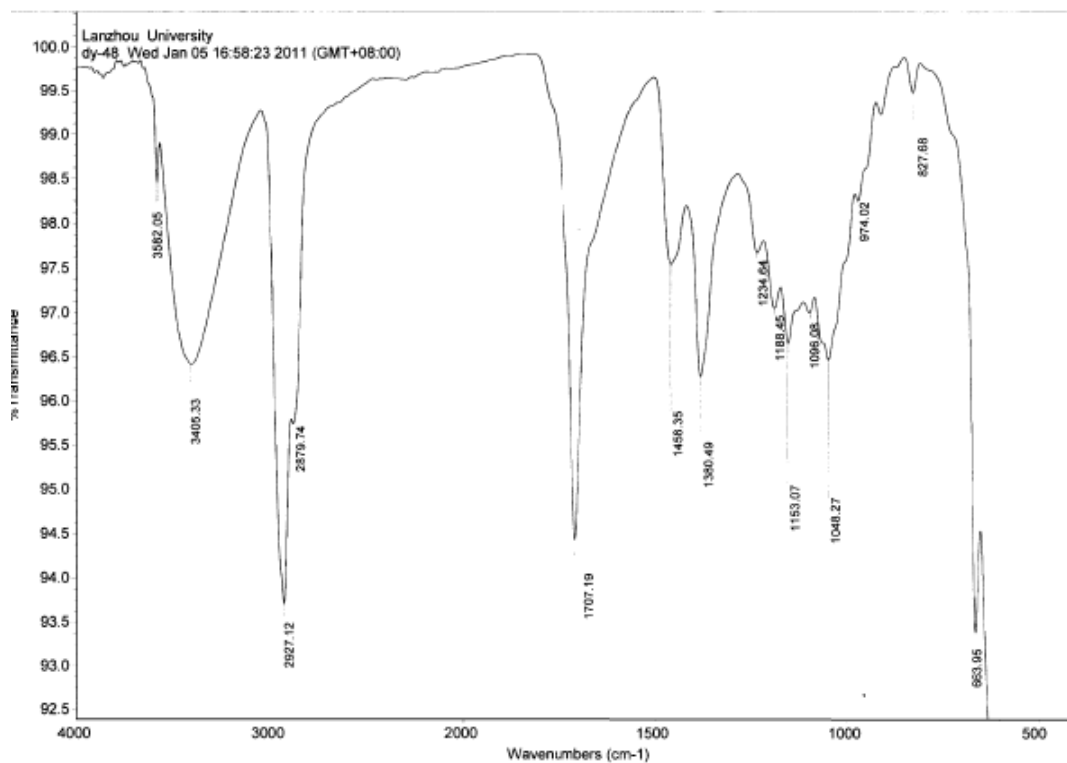
S74-S81. HRESIMS, IR (KBr disc), 1D NMR and 2D NMR spectra of dysolenticin J (**12**) in CDCl₃

S82. Selected key HMBC correlations for new compounds **1-7**, **9-10**, and **12**.

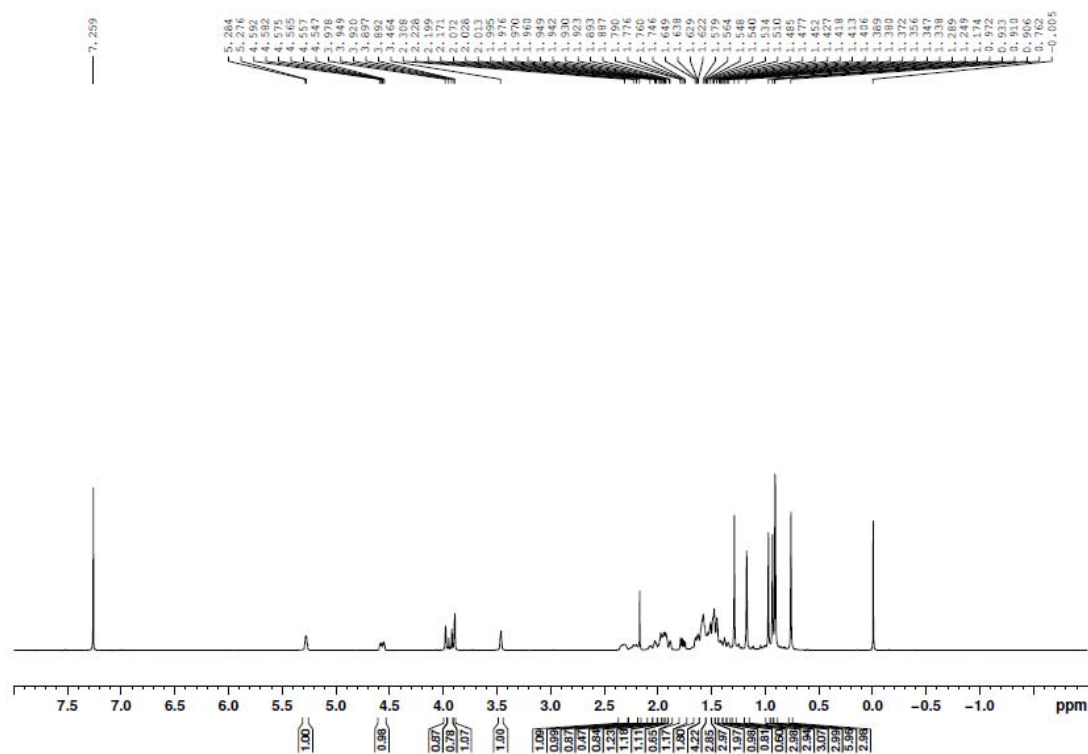
S1. HRESIMS of dysolenticin A (1)



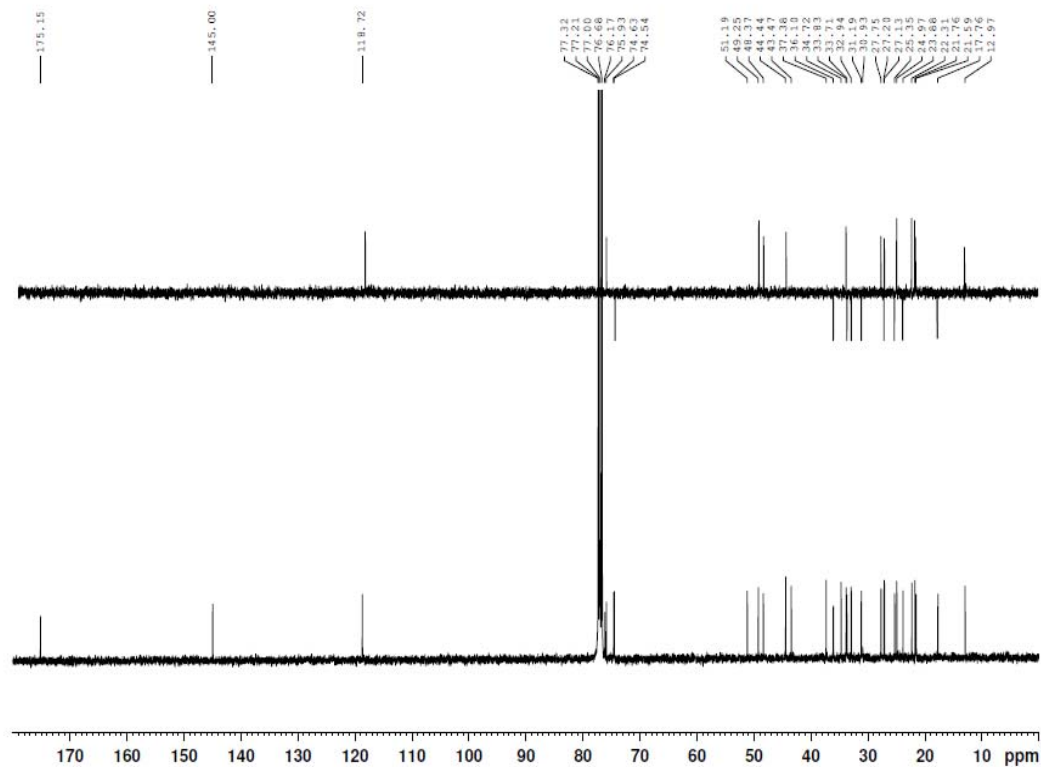
S2. IR (KBr disc) spectrum of dysolenticin A (1)



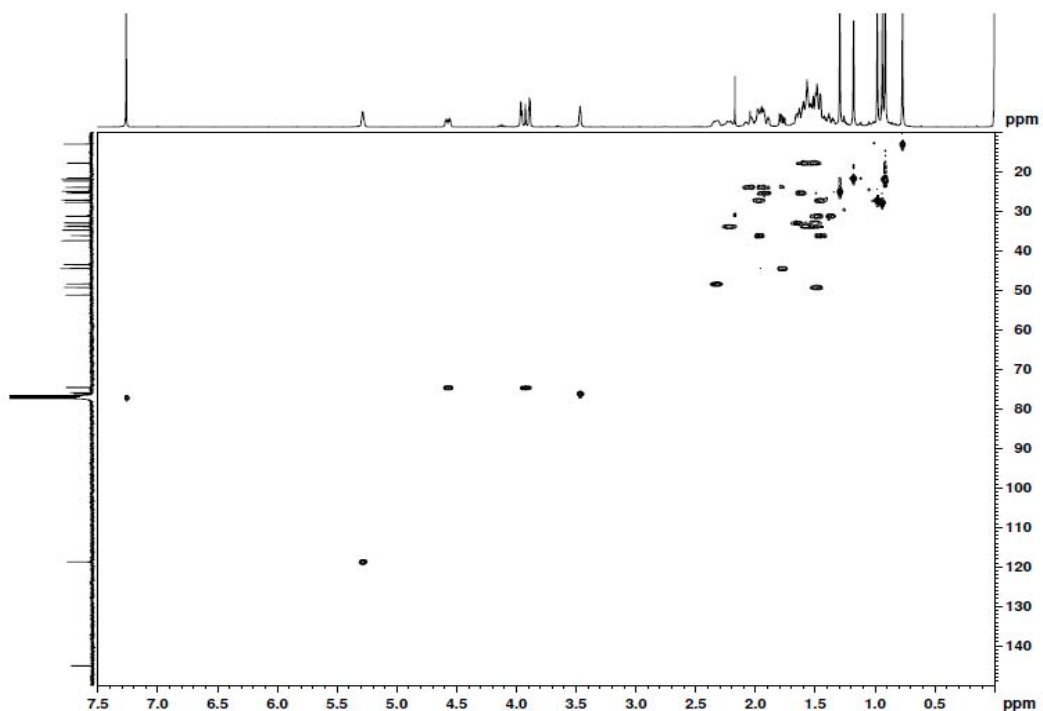
S3. ^1H NMR spectrum of dysolenticin A (**1**) in CDCl_3



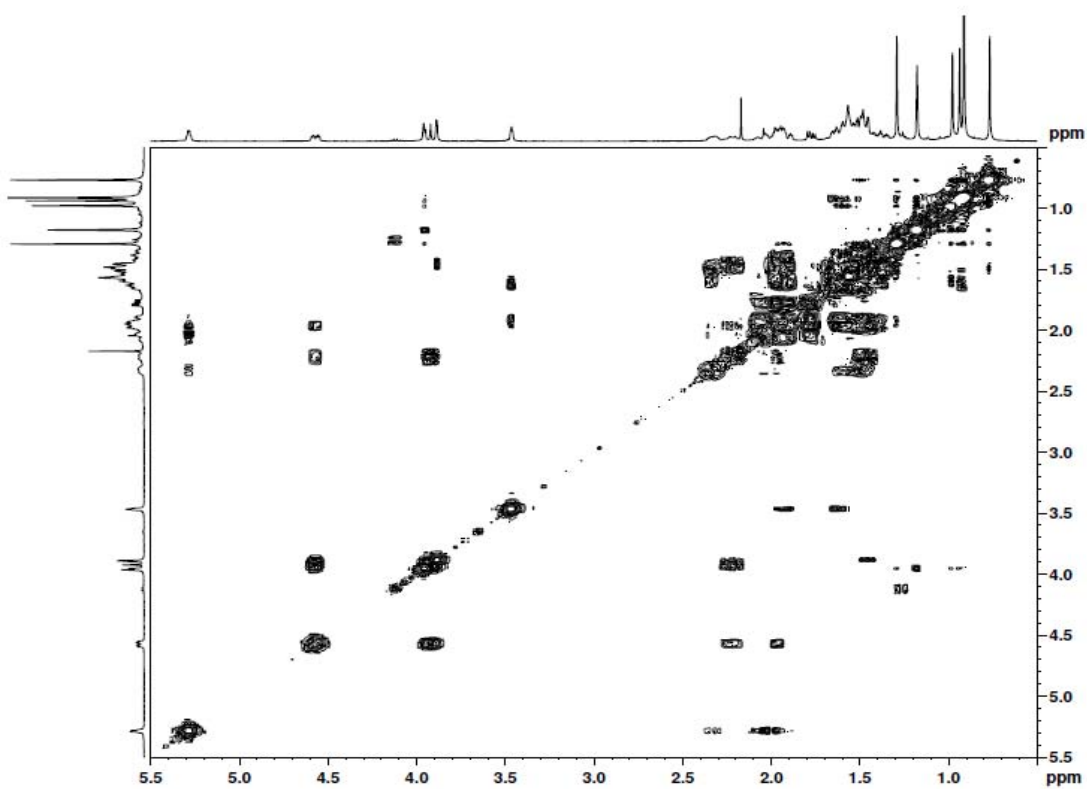
S4. ^{13}C NMR spectrum of dysolenticin A (**1**) in CDCl_3



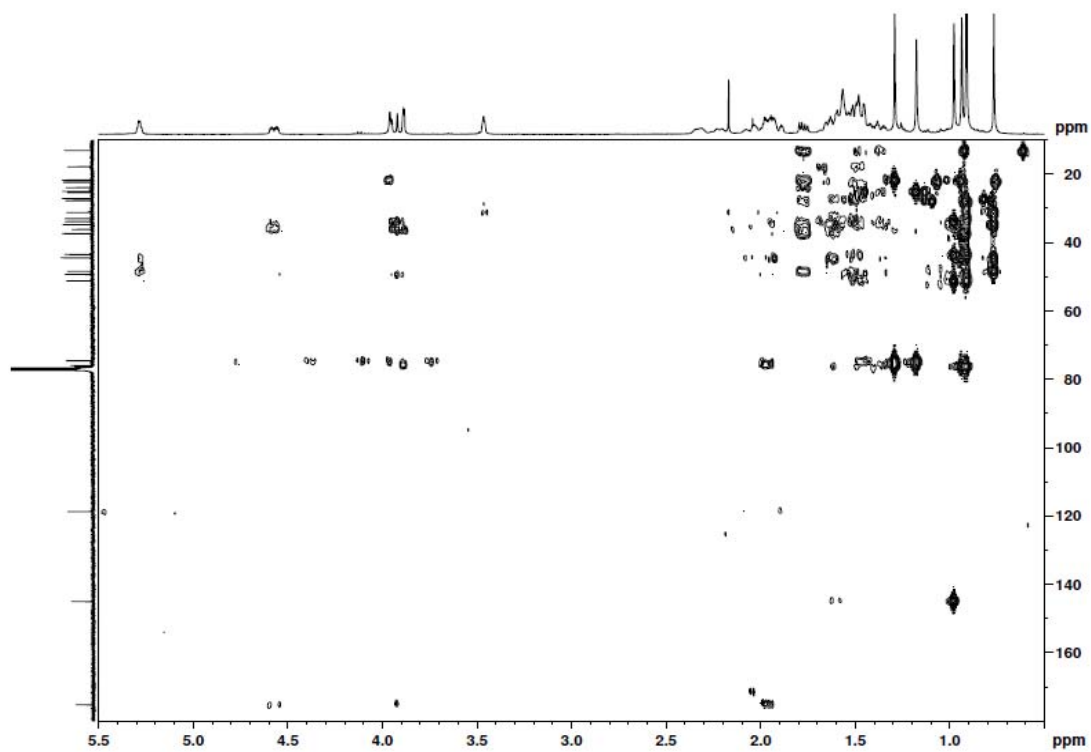
S5. HSQC spectrum of dysolenticin A (**1**) in CDCl₃



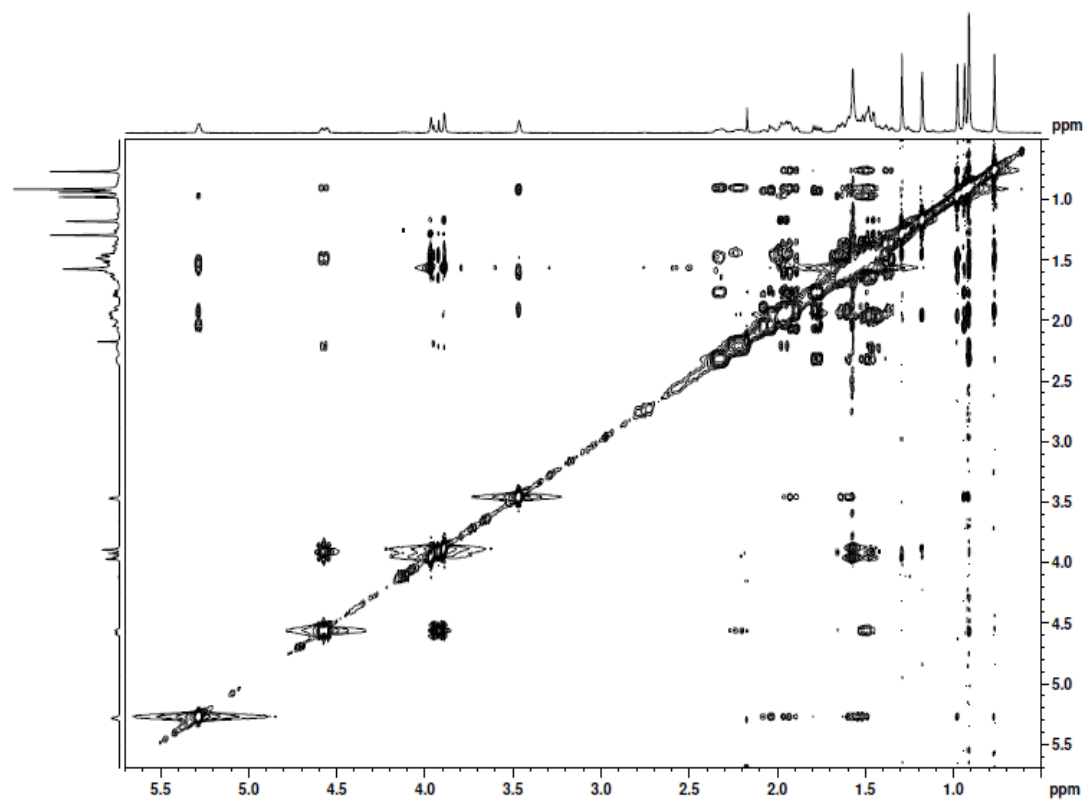
S6. ^1H - ^1H COSY spectrum of dysolenticin A (**1**) in CDCl_3



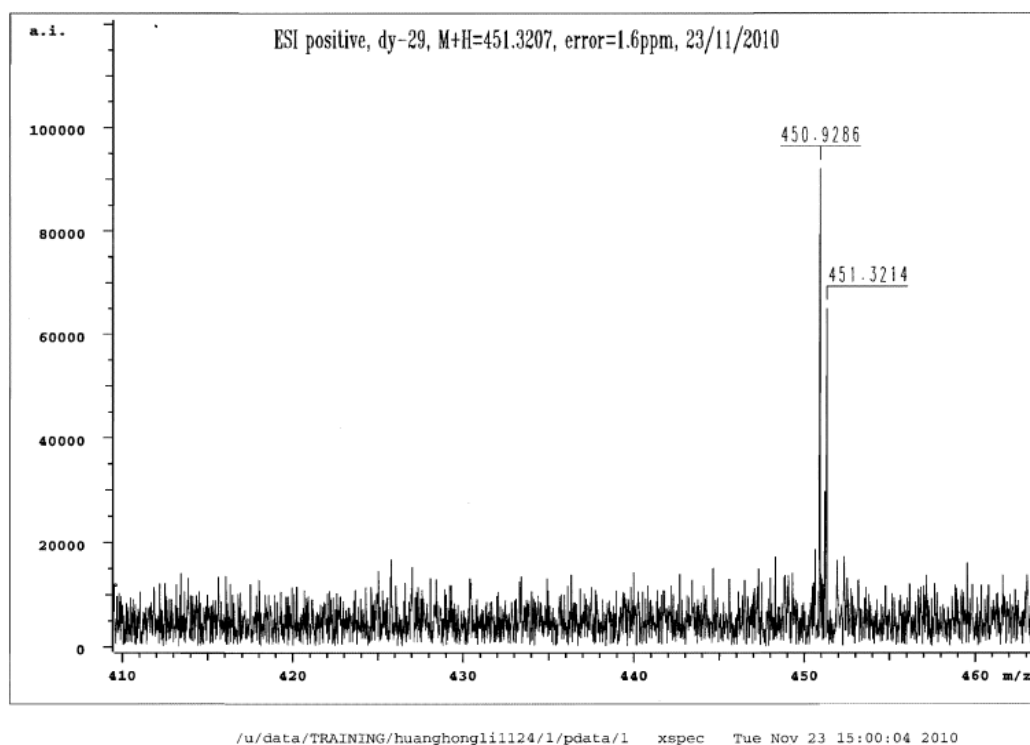
S7. HMBC spectrum of dysolenticin A (**1**) in CDCl₃



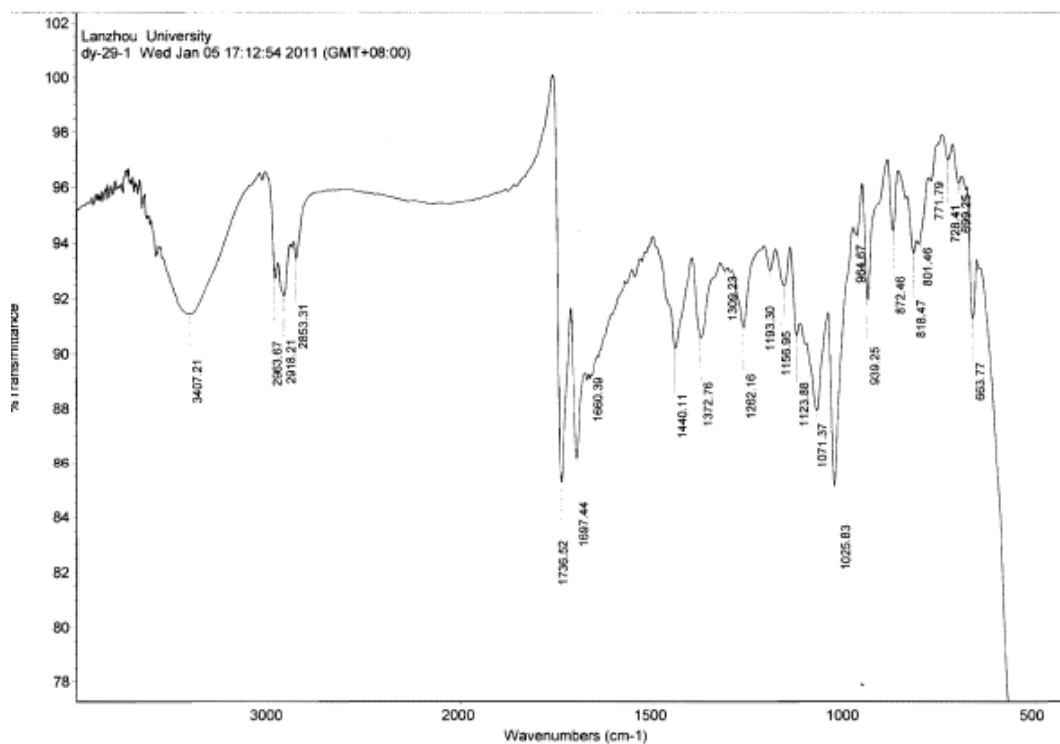
S8. NOESY spectrum of dysolenticin A (**1**) in CDCl₃



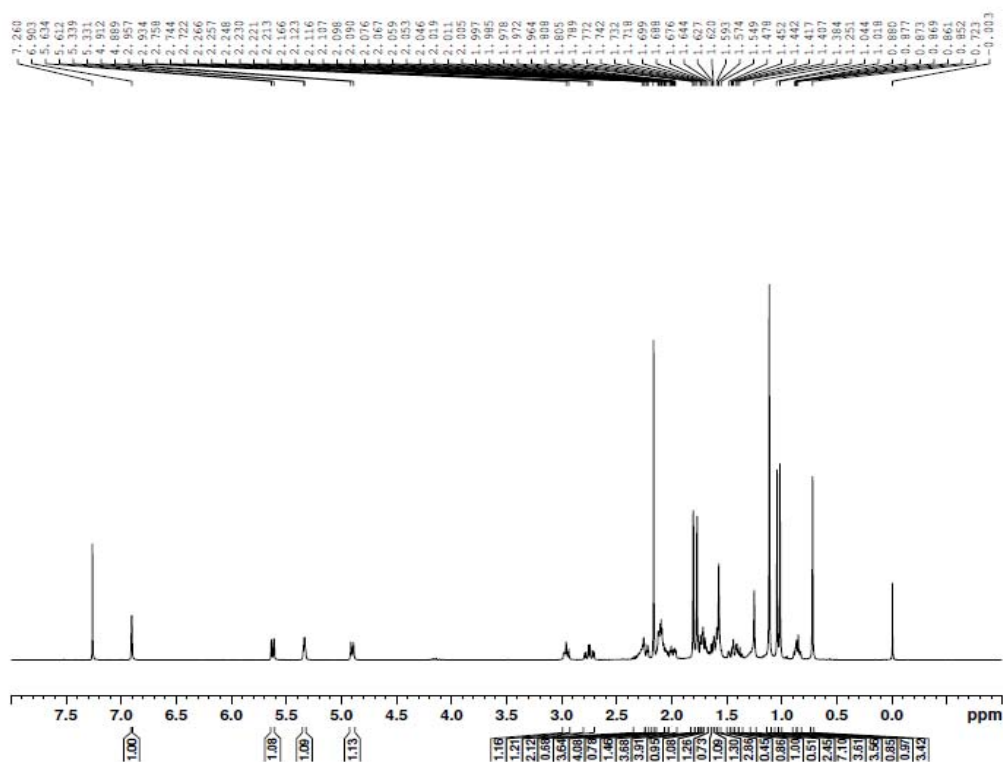
S9. HRESIMS of dysolenticin B (2)



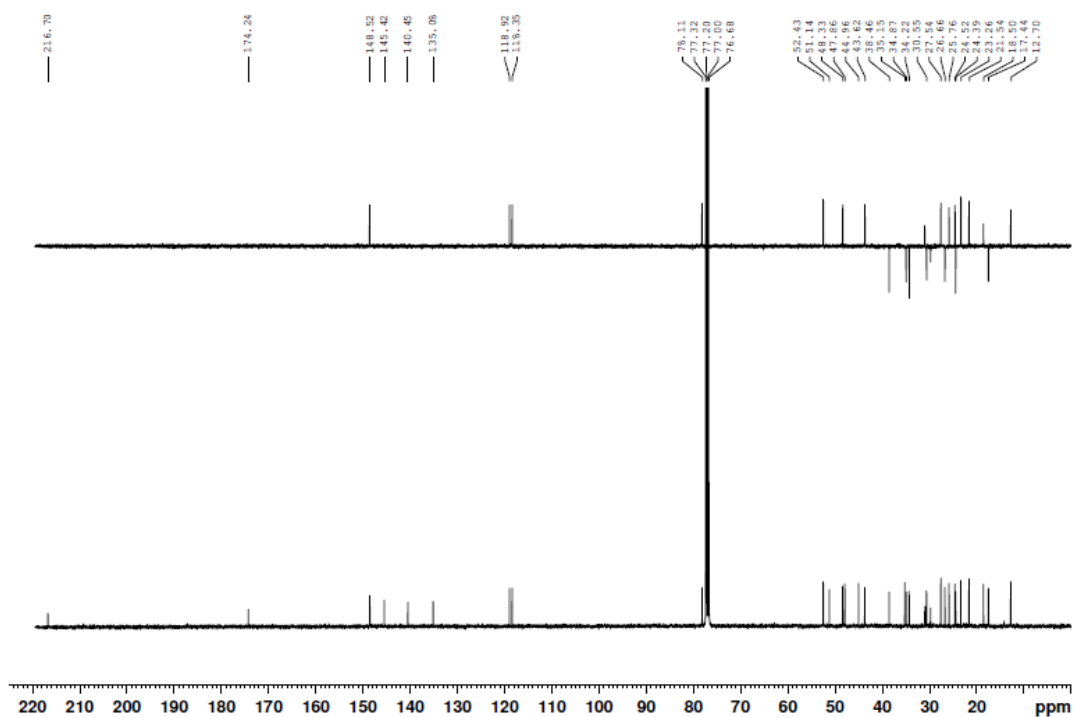
S10. IR (KBr disc) spectrum of dysolenticin B (2)



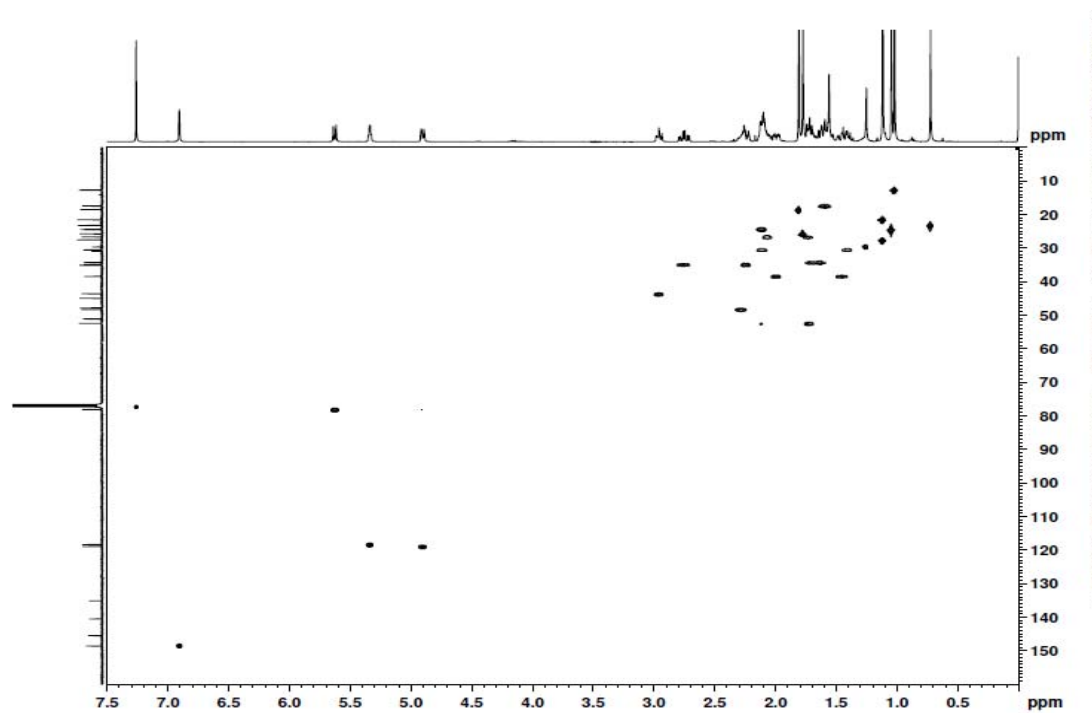
S11. ^1H NMR spectrum of dysolenticin B (2) in CDCl_3



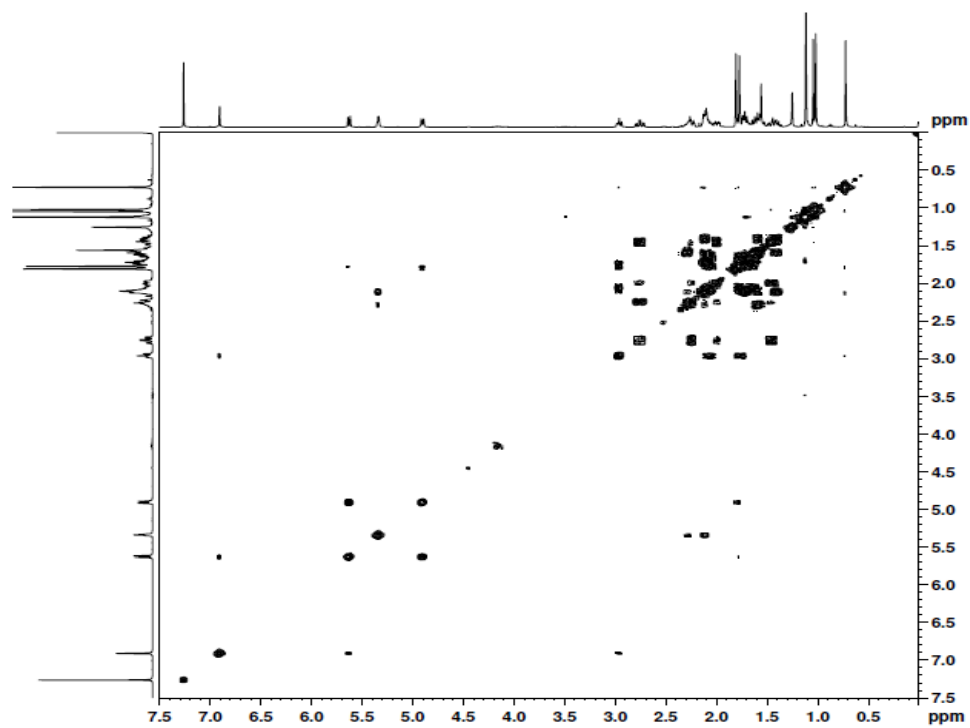
S12. ^{13}C NMR spectrum of dysolenticin B (2) in CDCl_3



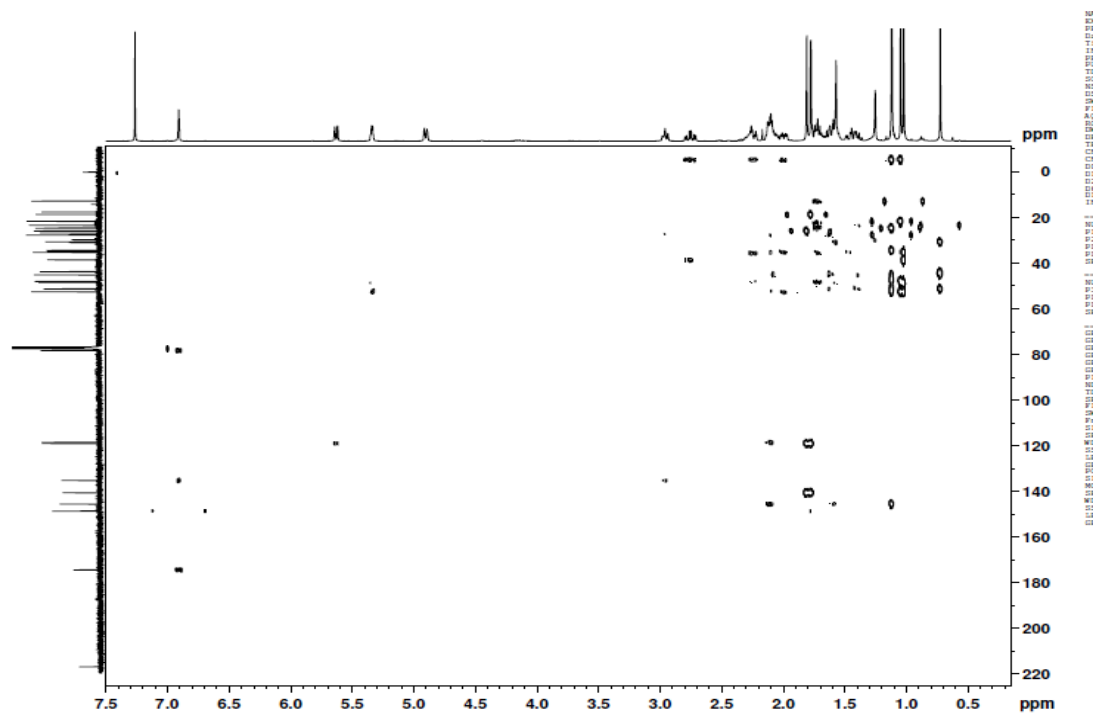
S13. HSQC spectrum of dysolenticin B (2) in CDCl₃



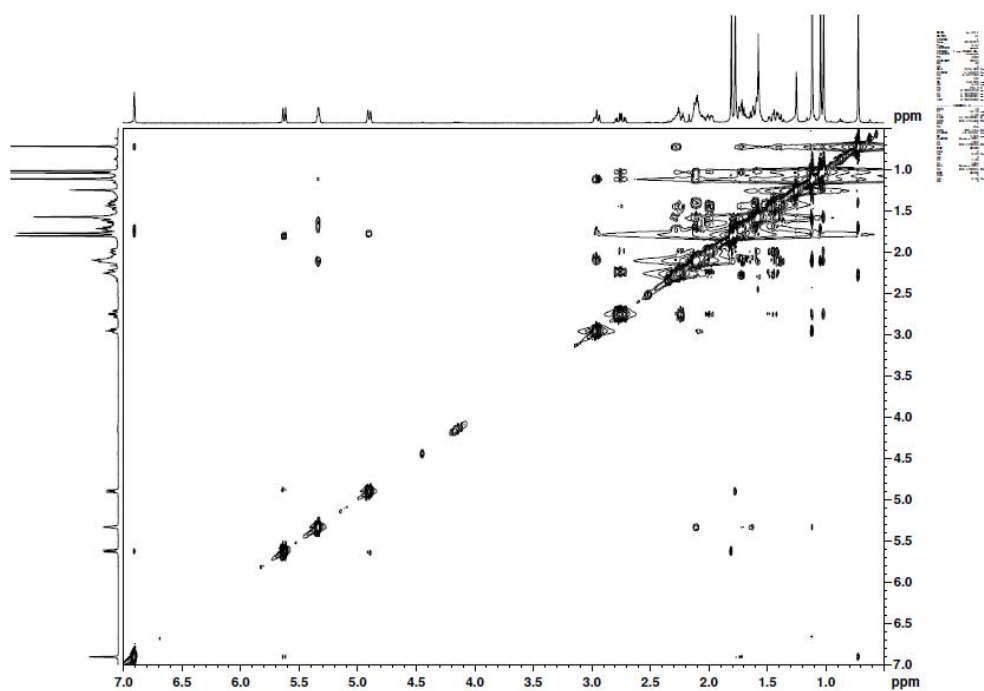
S14. ¹H-¹H COSY spectrum of dysolenticin A (1) in CDCl₃



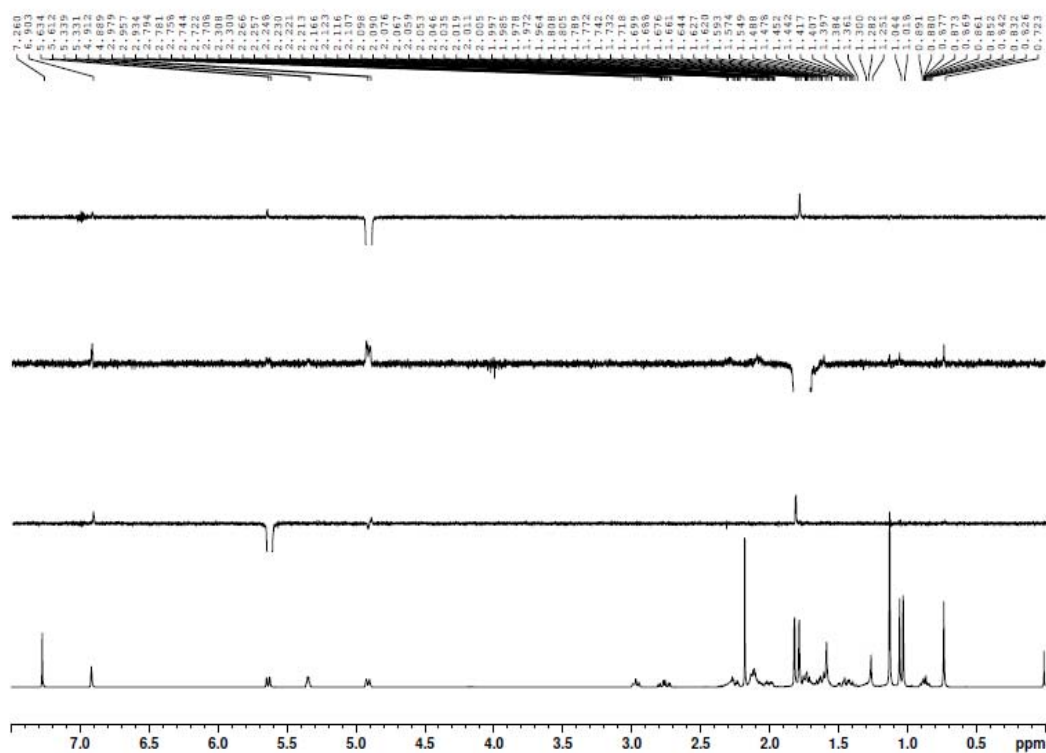
S15. HMBC spectrum of dysolenticin B (2) in CDCl₃



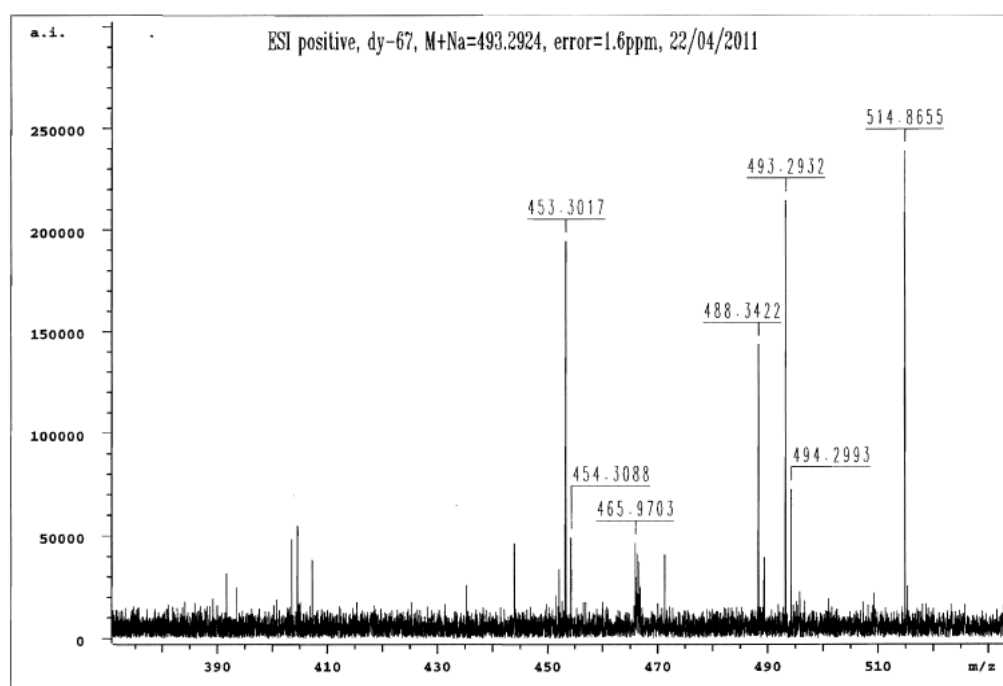
S16. NOESY spectrum of dysolenticellin B (2) in CDCl₃



S17. NOE spectrum of dysolenticellin B (**2**) in CDCl₃



S18. HRESIMS of dysolenticin C (3)



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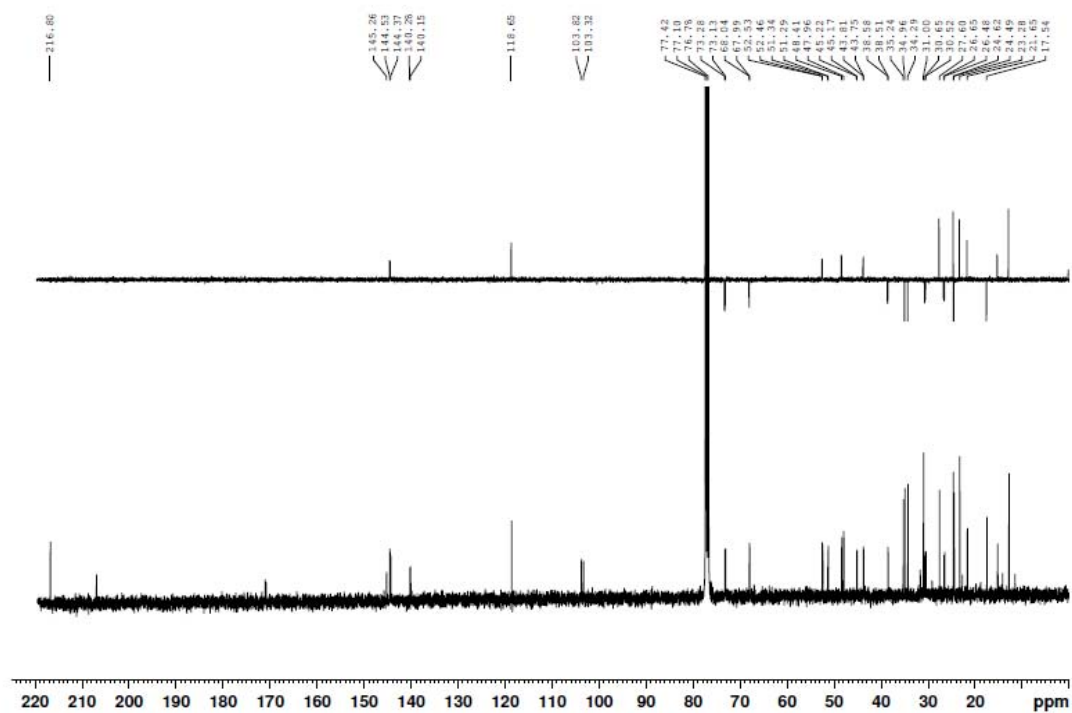
Lanzhou University
dy-67 Thu Apr 28 15:54:33 2011 (GMT+08:00)

The infrared spectrum displays transmittance on the y-axis (15% to 105%) and wavenumbers on the x-axis (4000 to 500 cm⁻¹). The spectrum features a broad absorption band around 3300 cm⁻¹, a sharp peak at 2965.90 cm⁻¹, and a very strong, sharp carbonyl absorption peak at 1704.90 cm⁻¹. Numerous other peaks are visible in the fingerprint region, particularly between 1500 and 700 cm⁻¹.

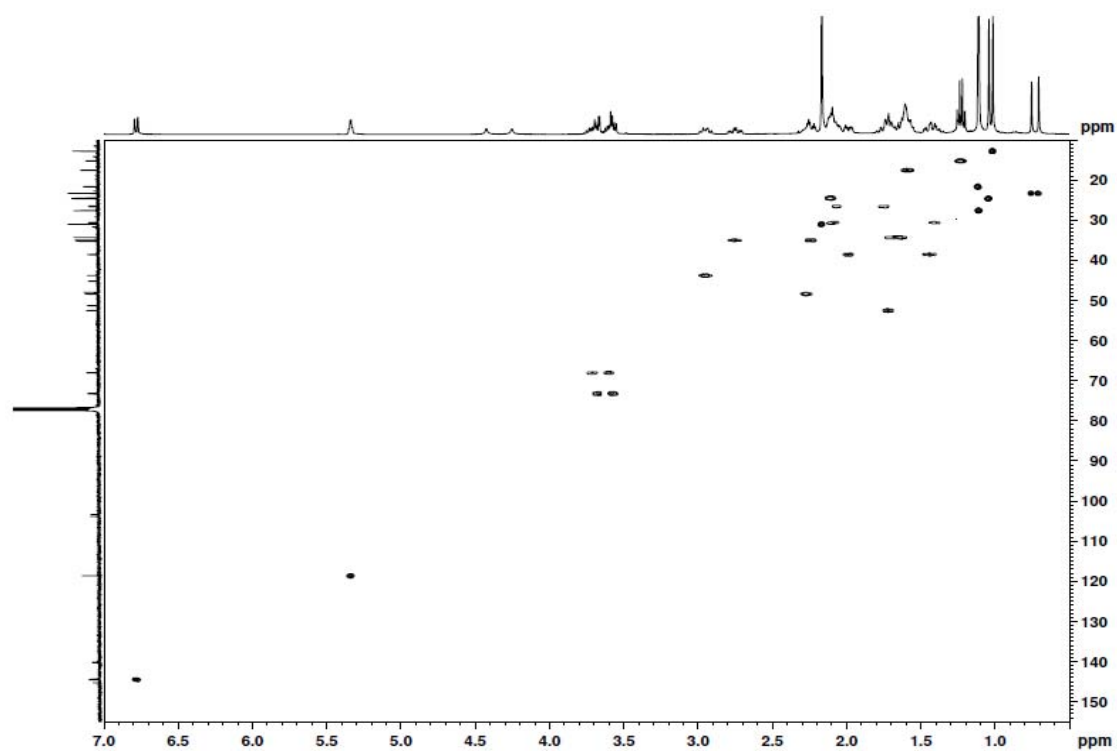
Wavenumber (cm⁻¹)
3317.31
3088.28
3057.03
2965.90
2877.66
1764.79
1704.90
1656.32
1451.82
1406.82
1386.22
1372.57
1294.52
1267.73
1223.62
1122.76
1049.15
1036.84
999.65
944.48
876.30
833.79
782.05
735.70
702.88
654.62
604.41
572.06

[illegible]

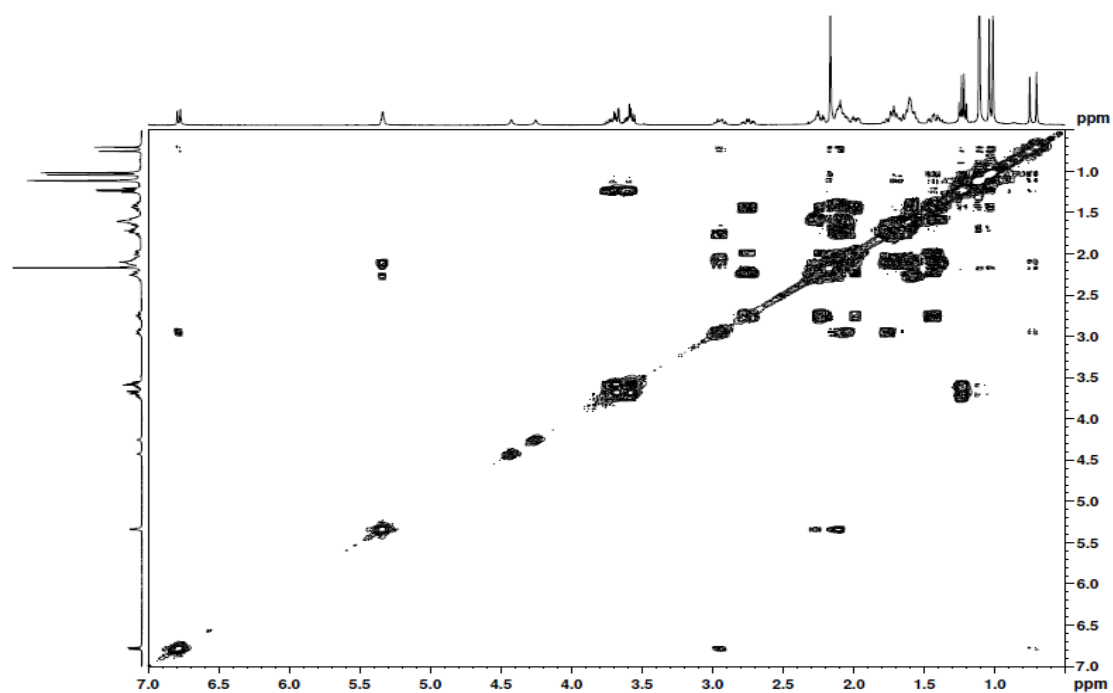
S21. ^{13}C NMR spectrum of dysolenticin C (**3**) in CDCl_3



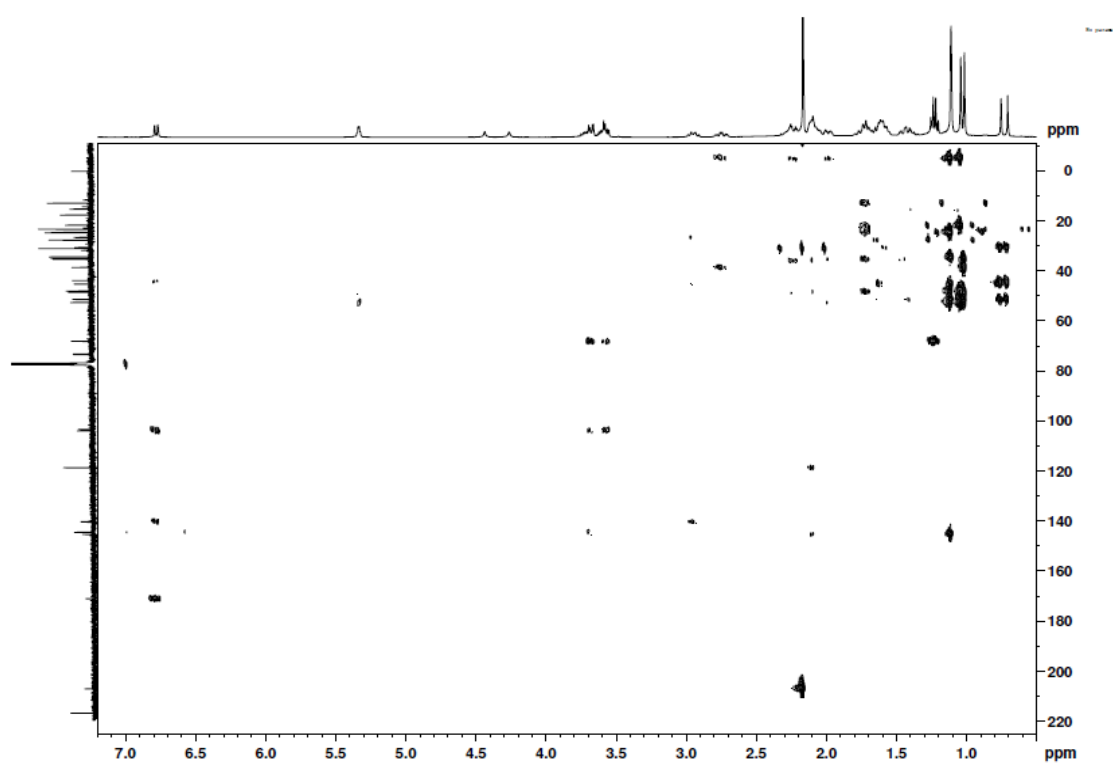
S22. HSQC spectrum of dysolenticin C (**3**) in CDCl_3



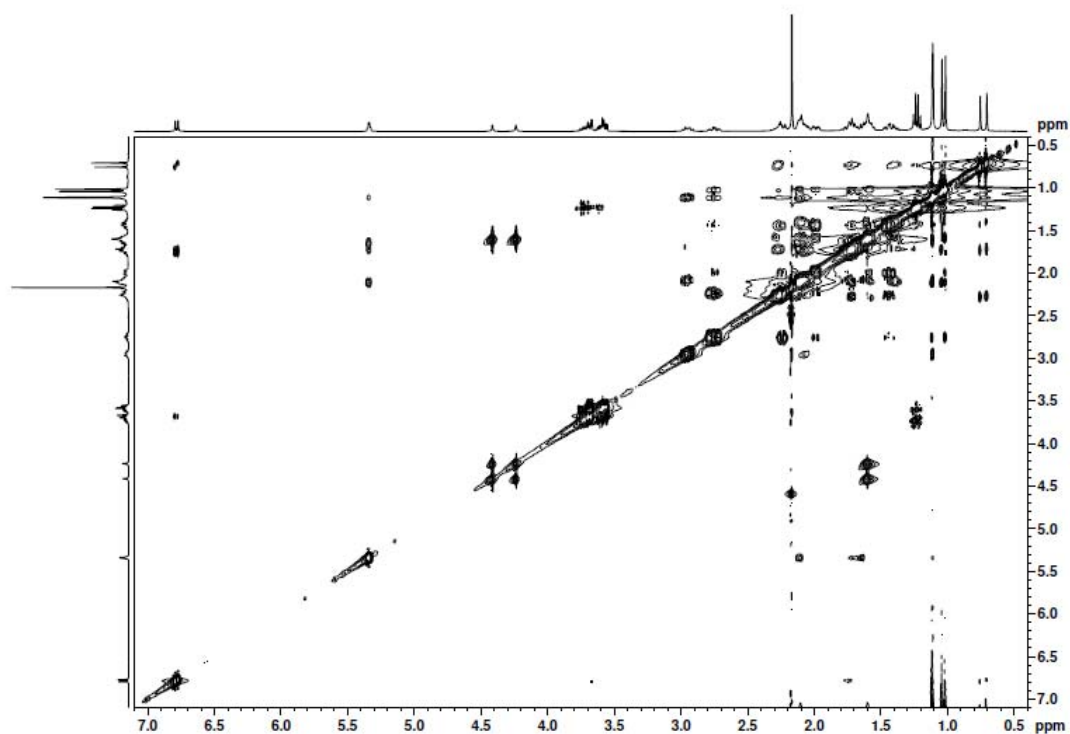
S23. ^1H - ^1H COSY spectrum of dysolenticin C (**3**) in CDCl_3



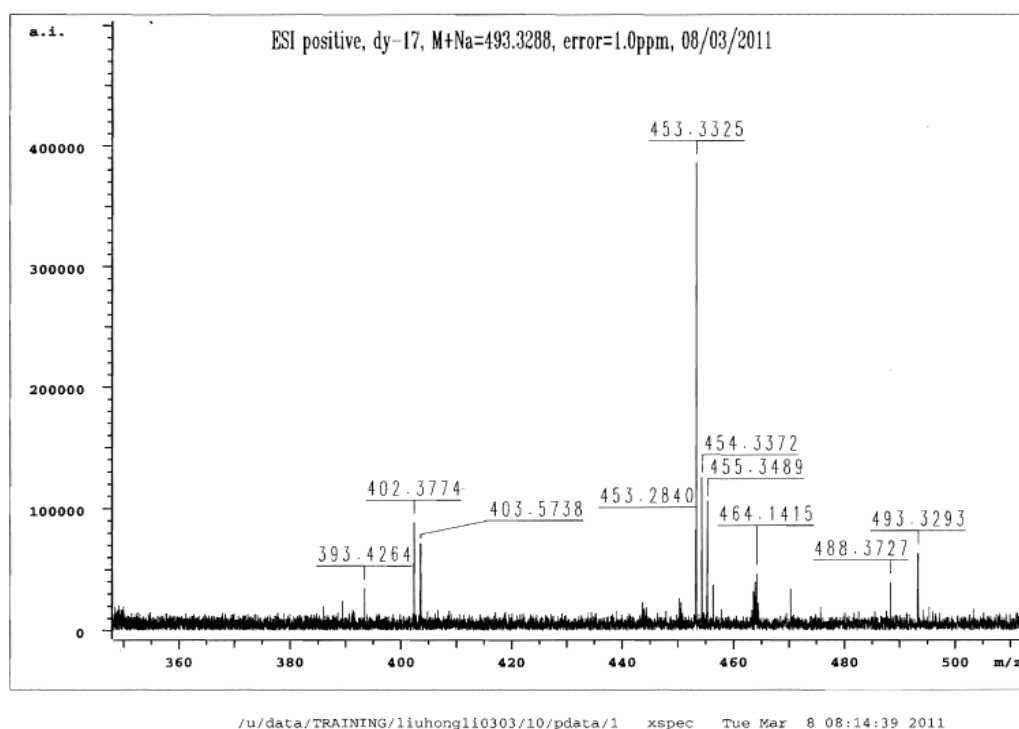
S24. HMBC spectrum of dysolenticin C (**3**) in CDCl_3



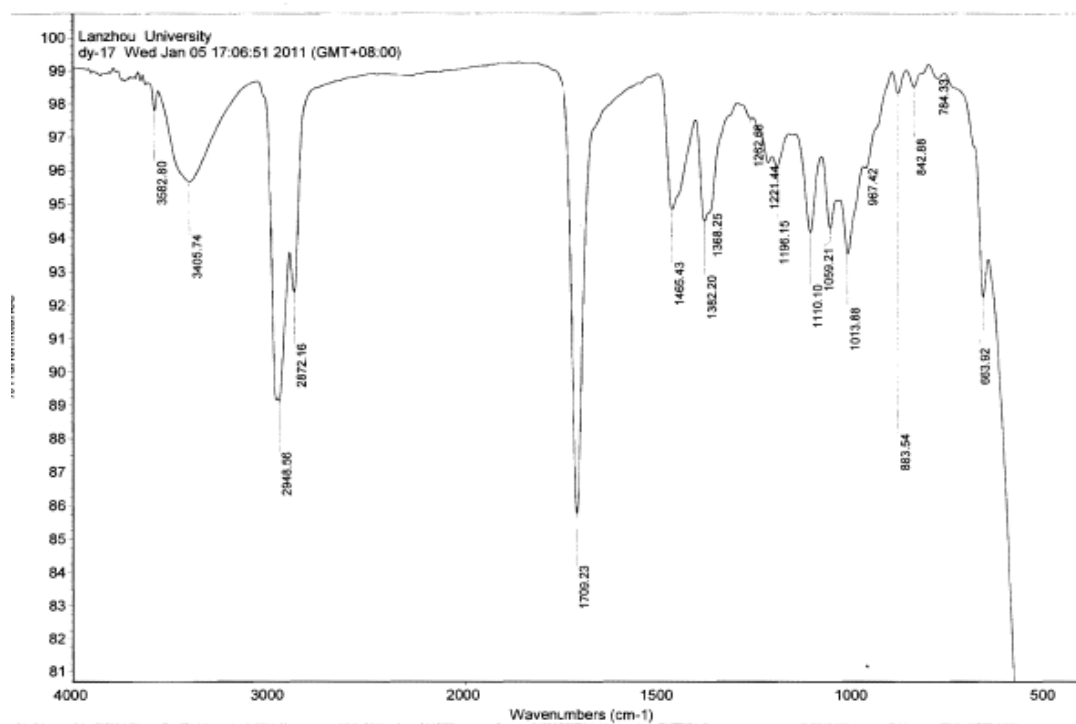
S25. NOESY spectrum of dysolenticin C (3) in CDCl₃



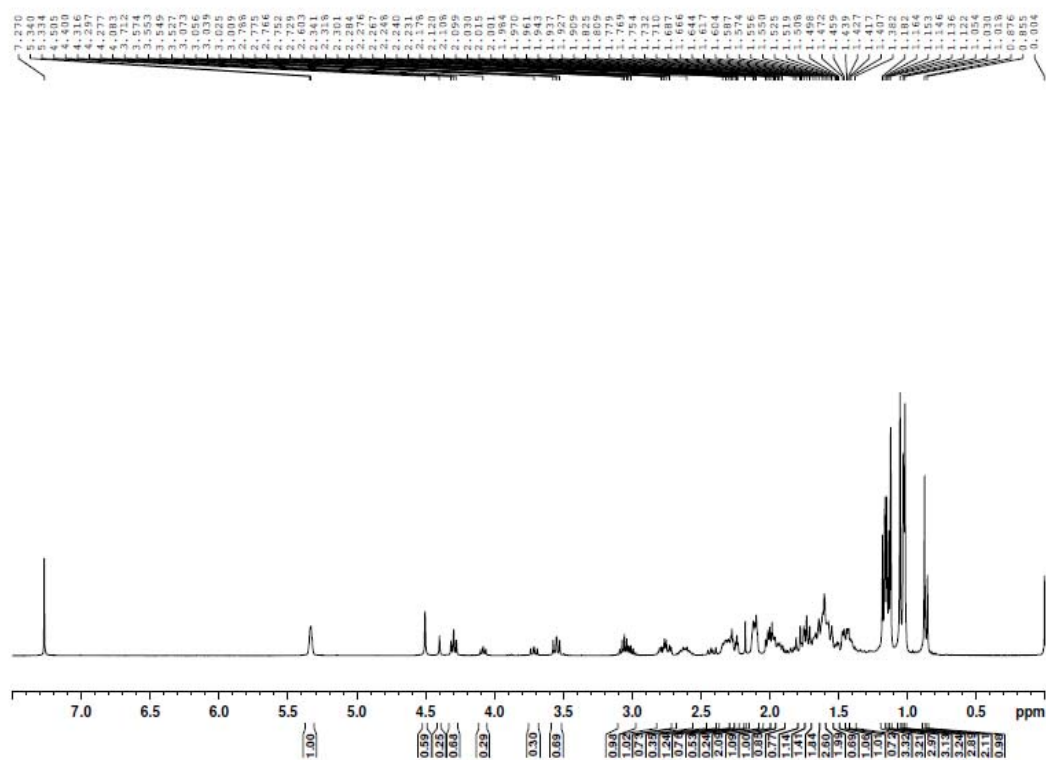
S26. HRESIMS of dysolenticin D (4)



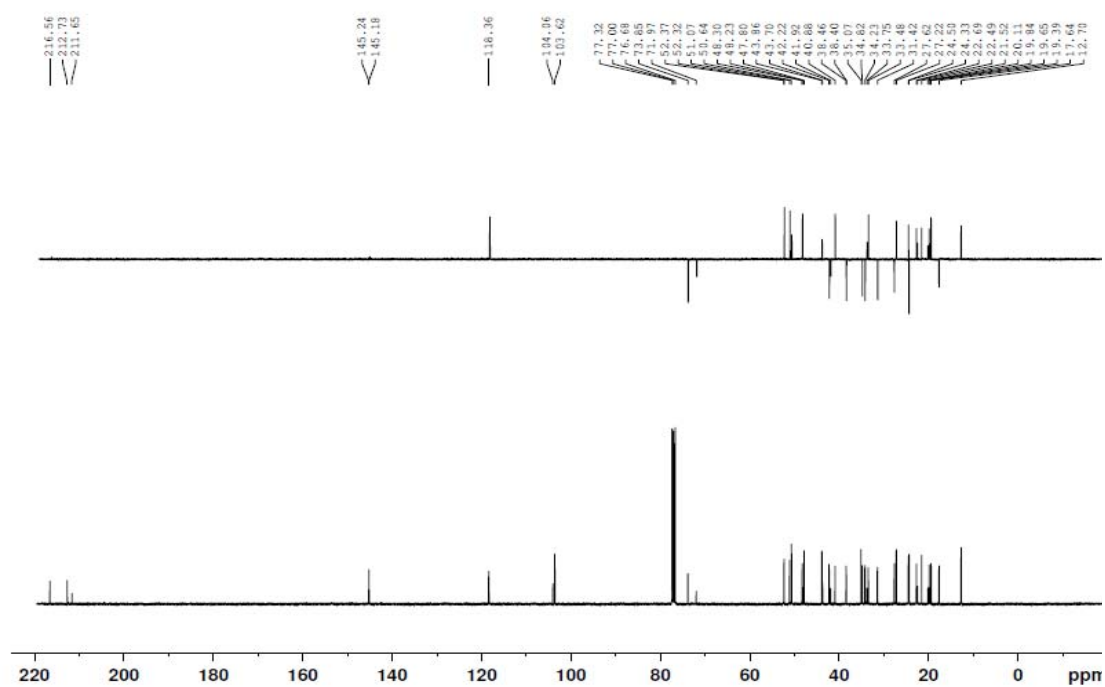
S27. IR (KBr disc) spectrum of dysolenticin D (4)



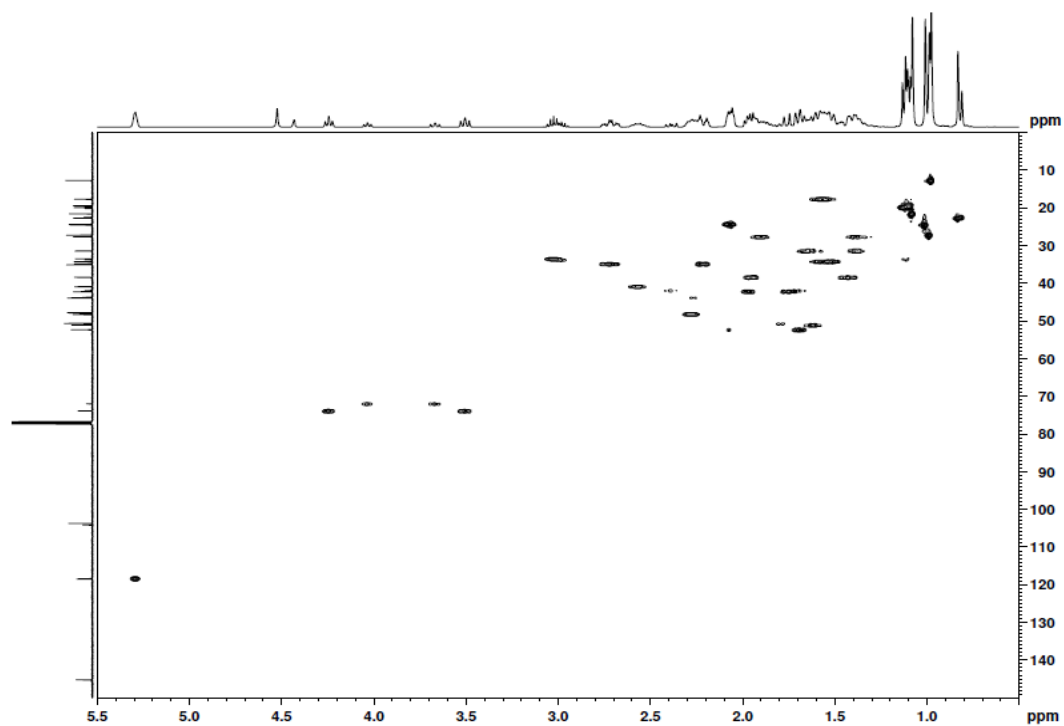
S28. ¹H NMR spectrum of dysolenticin D (4) in CDCl₃



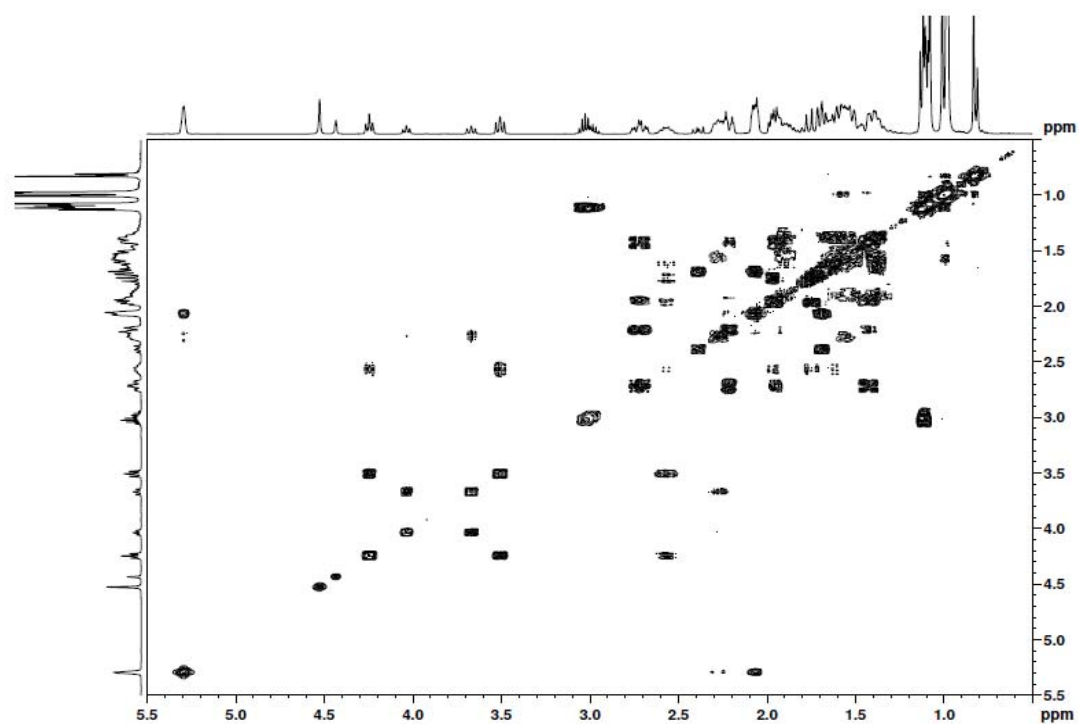
S29. ^{13}C NMR spectrum of dysolenticin D (**4**) in CDCl_3



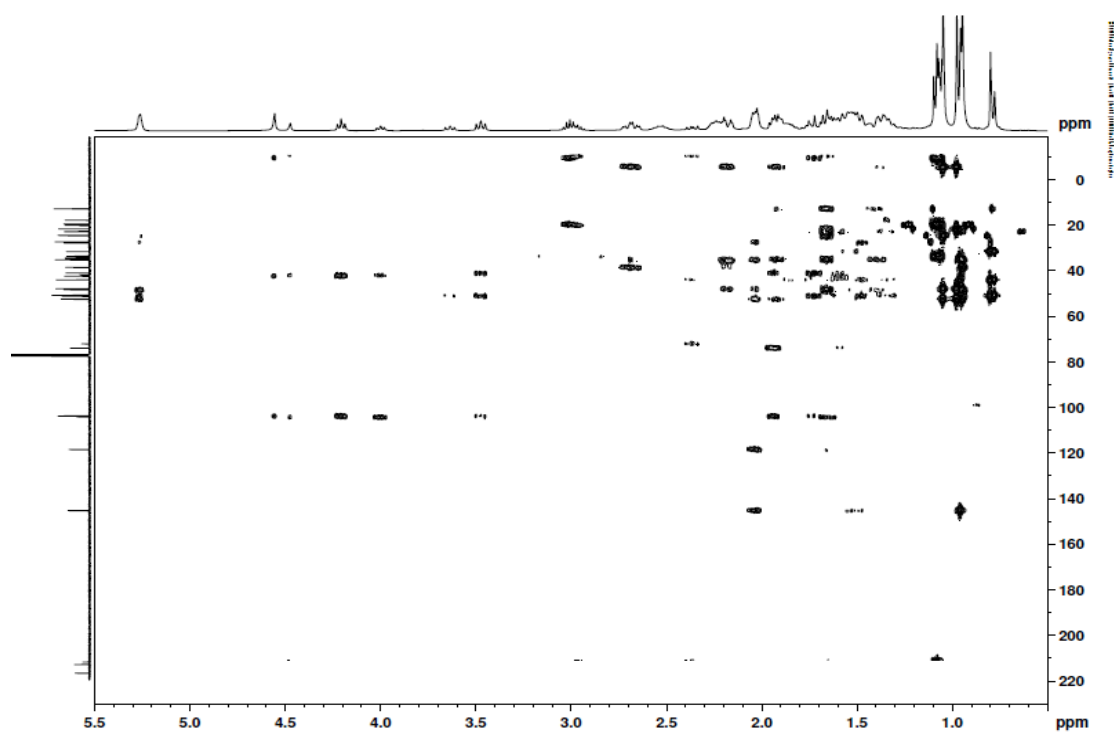
S30. HSQC spectrum of dysolenticin D (**4**) in CDCl_3



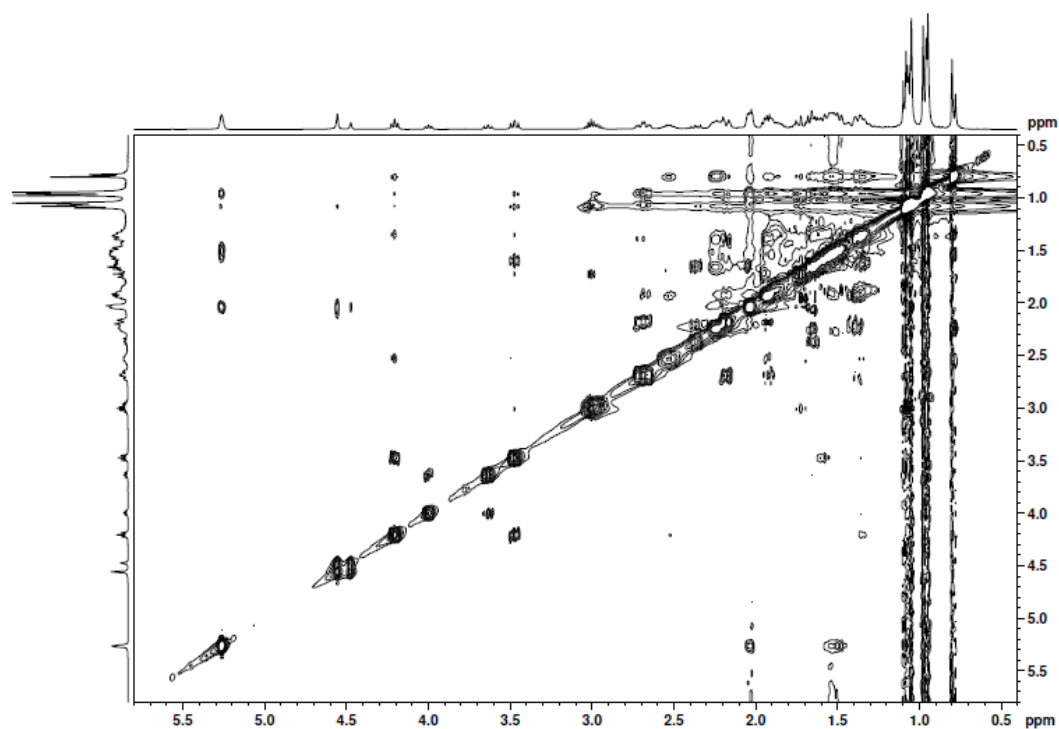
S31. ^1H - ^1H COSY spectrum of dysolenticin D (**4**) in CDCl_3



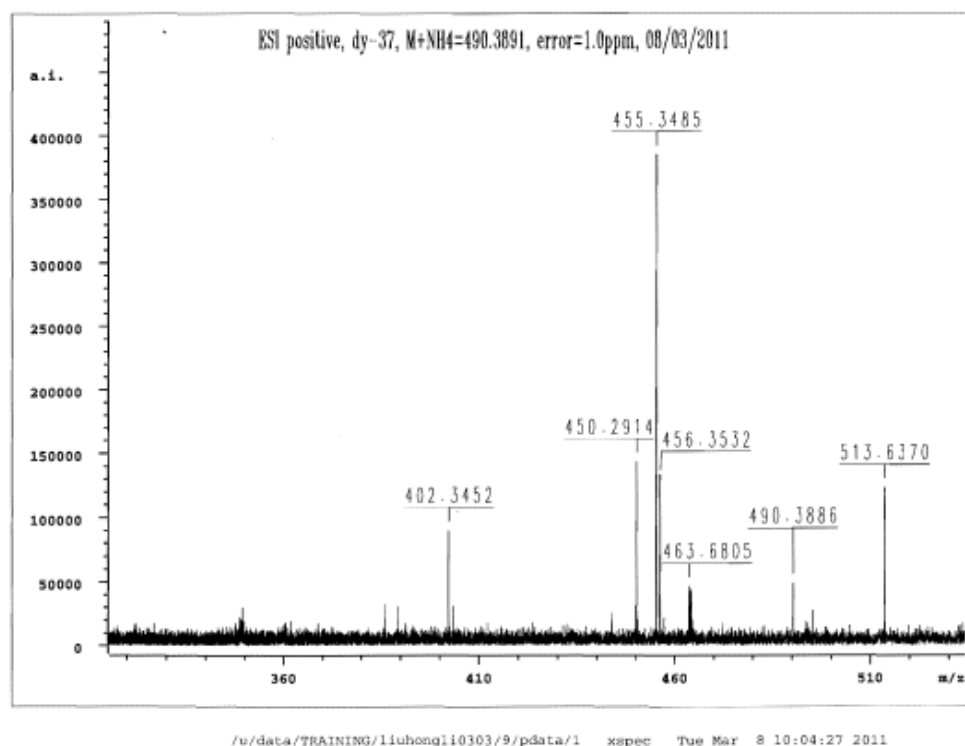
S32. HMBC spectrum of dysolenticin D (**4**) in CDCl_3



S33. NOESY spectrum of dysolenticin D (4) in CDCl₃



S34. HRESIMS of dysolenticin E (5)



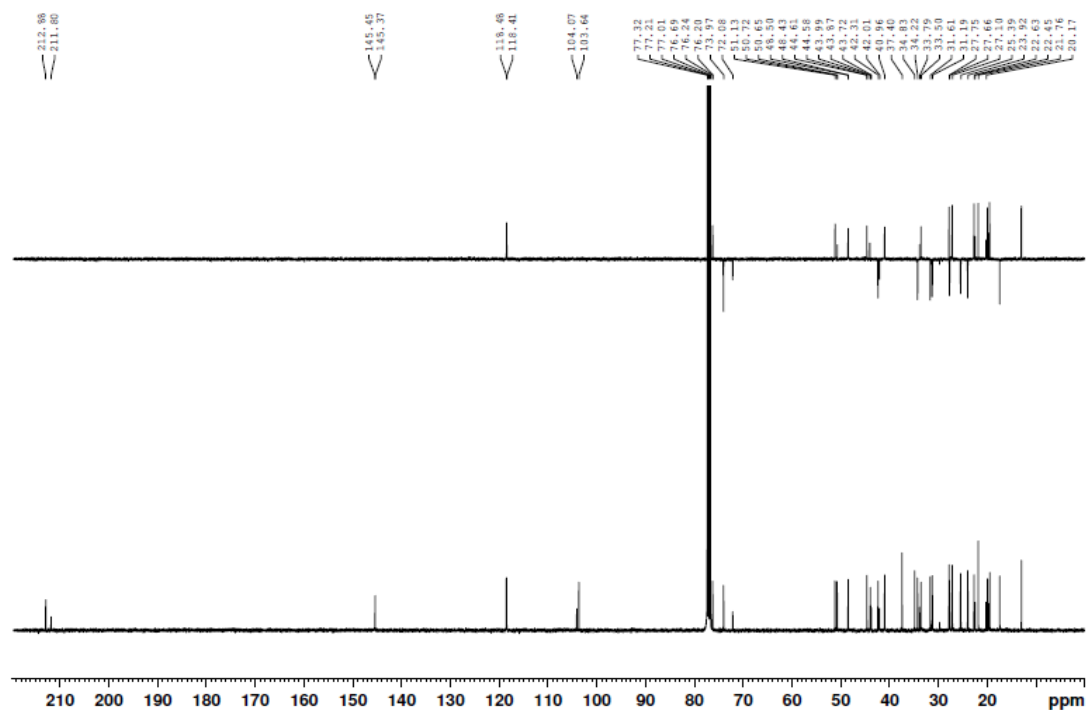
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dy-37-2 Wed Jan 05 17:02:58 2011 (GMT+08:00)

Wavenumbers (cm⁻¹)

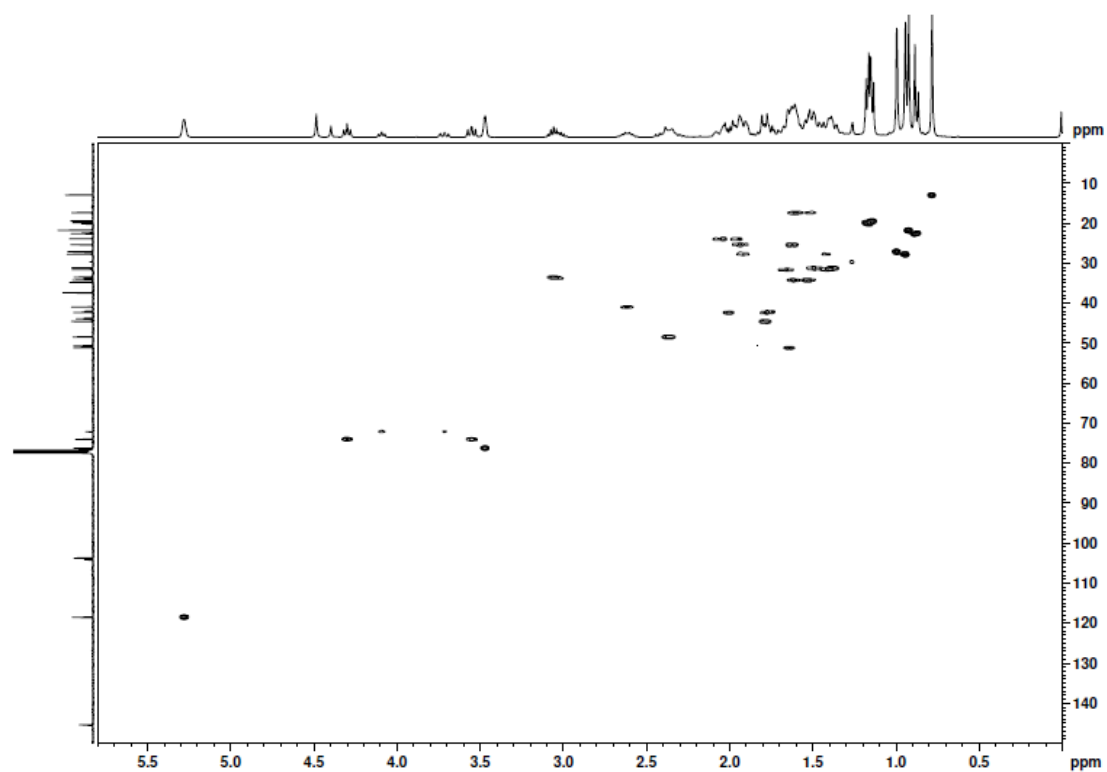
Wavenumber (cm ⁻¹)
3449.00
2947.36
2877.12
1715.12
1384.00
1363.31
1467.96
1445.15
1417.72
1302.37
1276.18
1222.52
1188.45
1114.05
1062.11
1041.85
1013.34
997.14
944.63
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860.04
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827.88
793.01
755.21
692.88
663.51
645.58

[illegible]

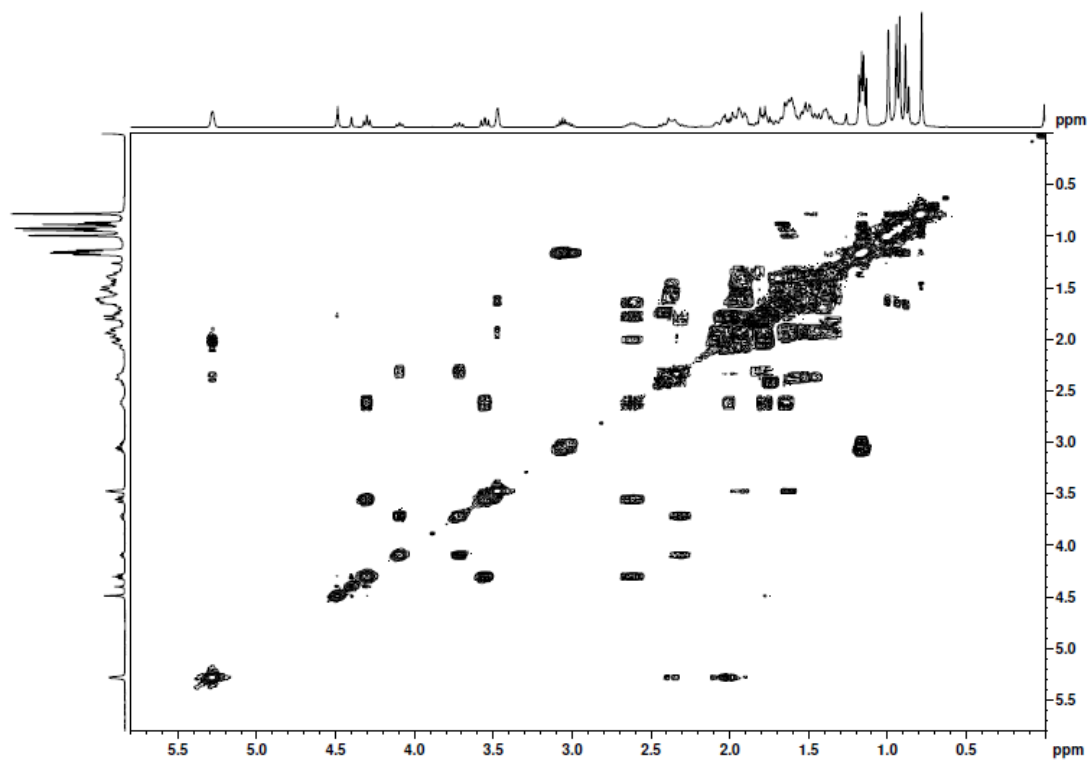
S37. ^{13}C NMR spectrum of dysolenticin E (5) in CDCl_3



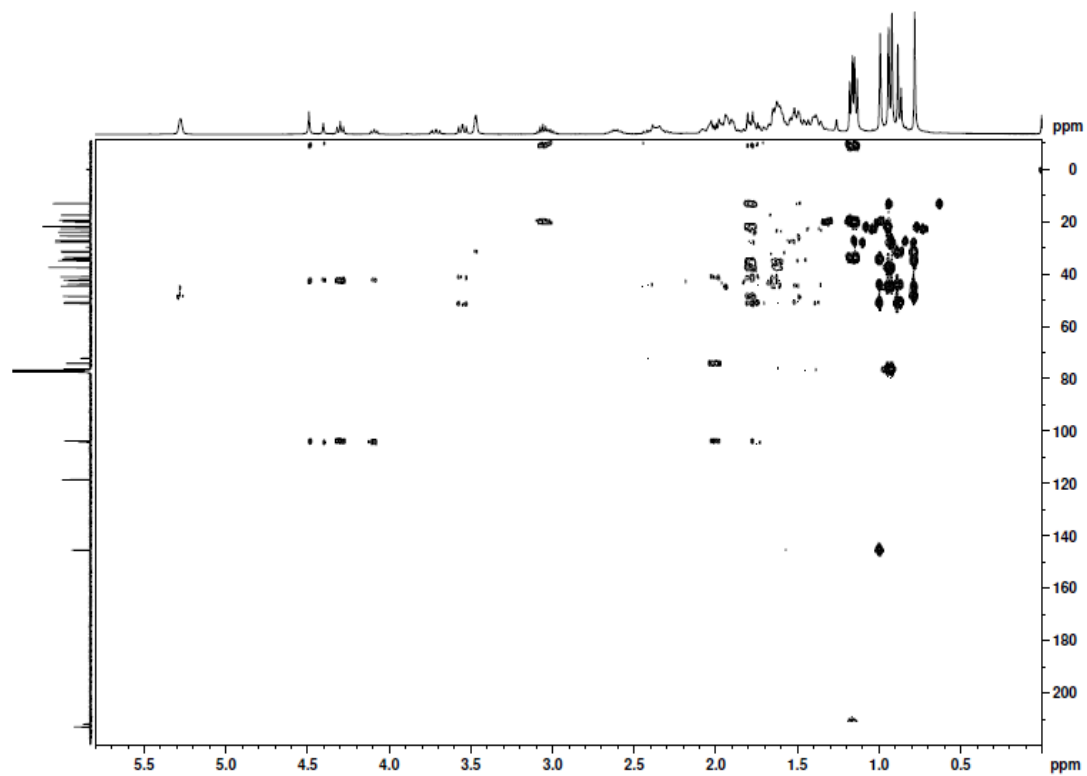
S38. HSQC spectrum of dysolenticin E (5) in CDCl_3



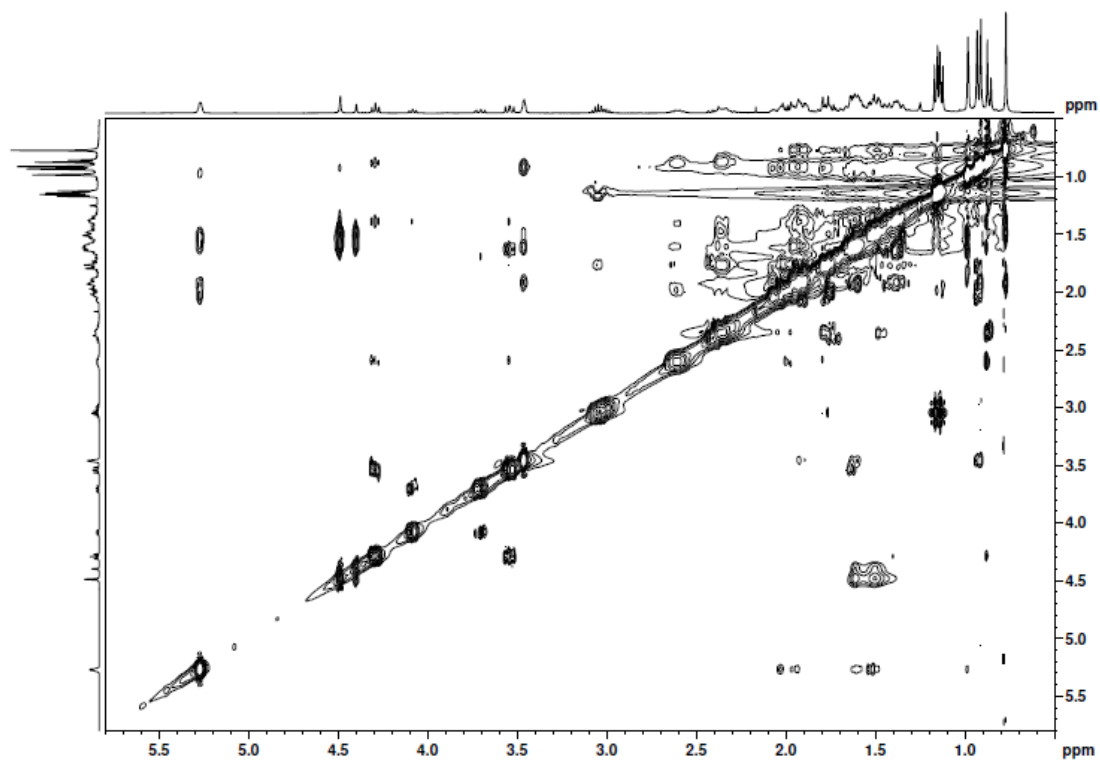
S39. ^1H - ^1H COSY spectrum of dysolenticin E (5) in CDCl_3



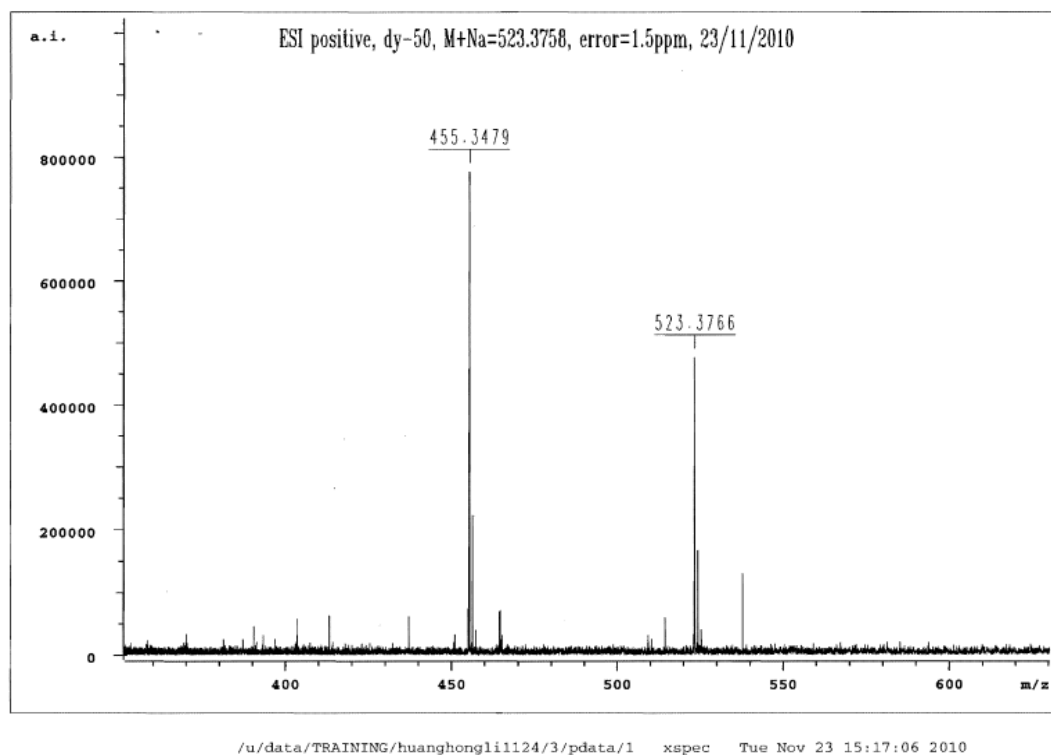
S40. HMBC spectrum of dysolenticin E (5) in CDCl_3



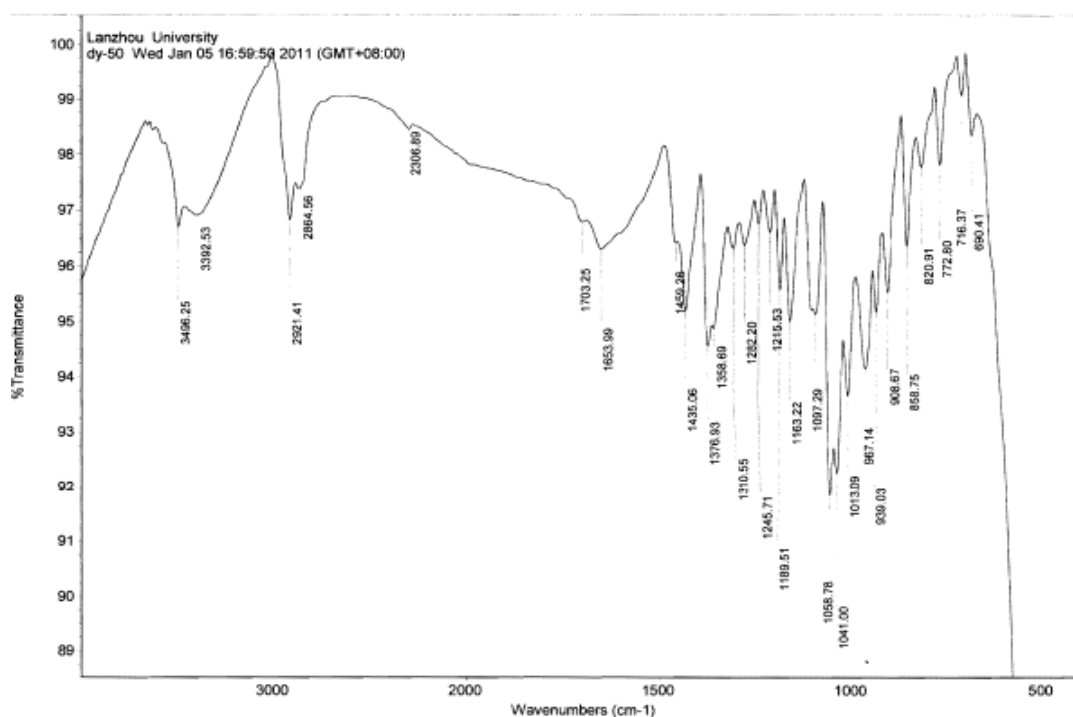
S41. NOESY spectrum of dysolenticin E (5) in CDCl₃



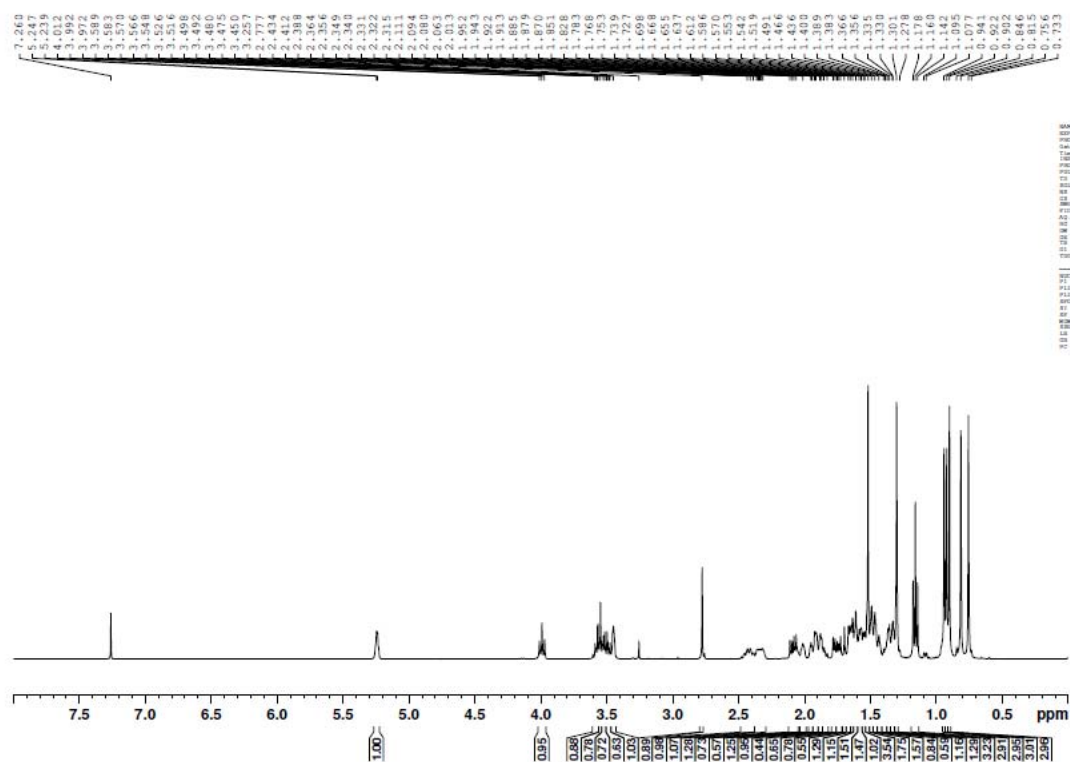
S42. HRESIMS of dysolenticin F (6)



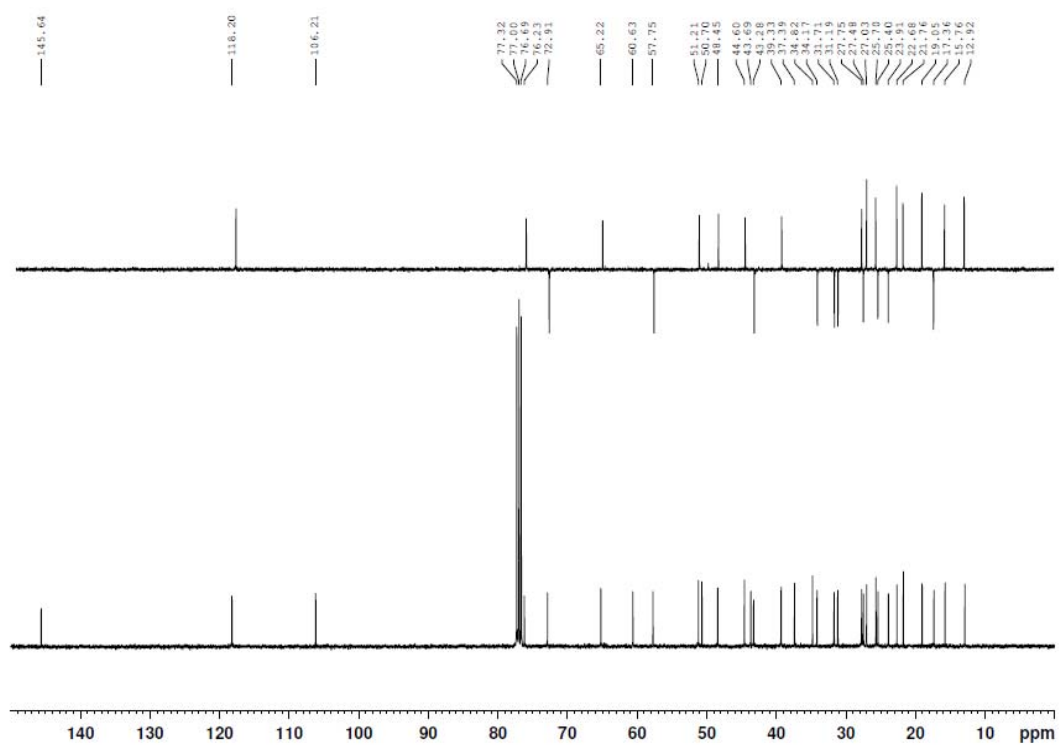
S43. IR (KBr disc) spectrum of dysolenticin F (**6**)



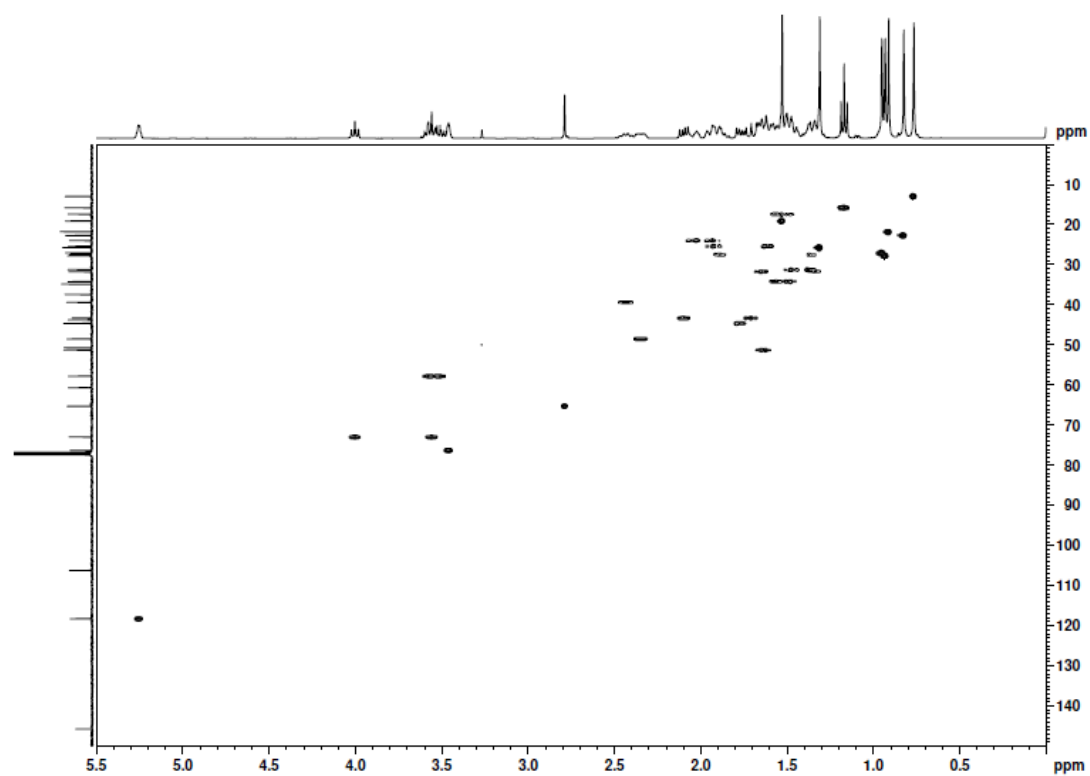
S44. ^1H NMR spectrum of dysolenticin F (**6**) in CDCl_3



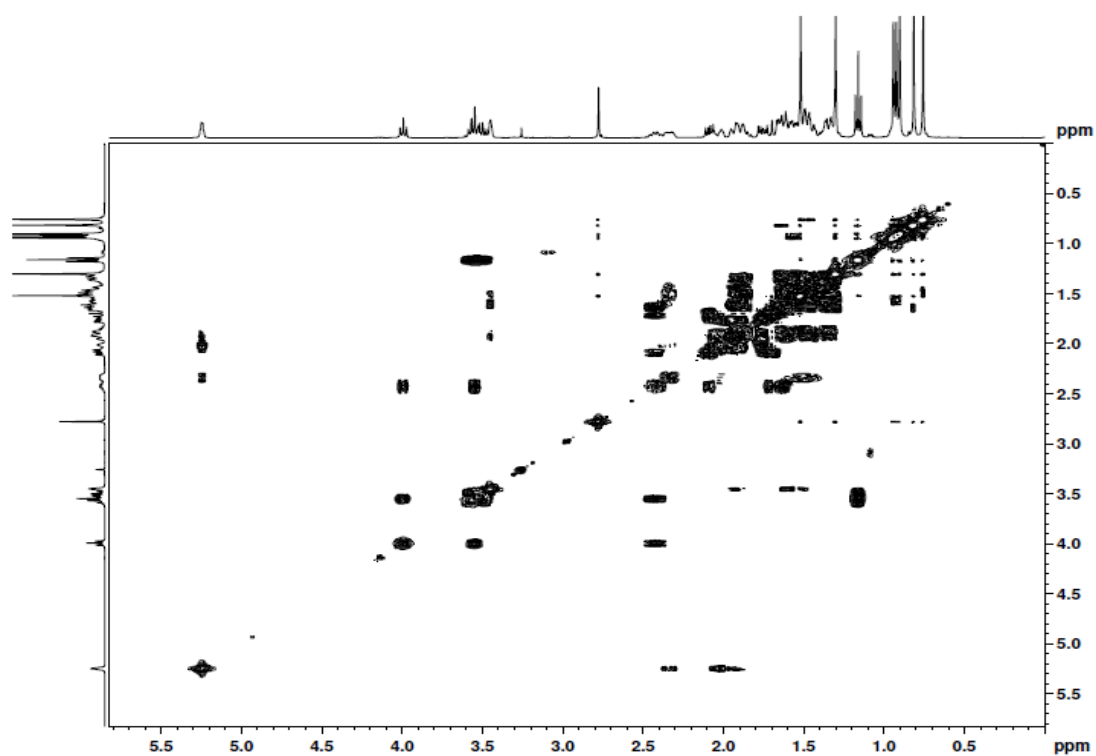
S45. ^{13}C NMR spectrum of dysolenticin F (**6**) in CDCl_3



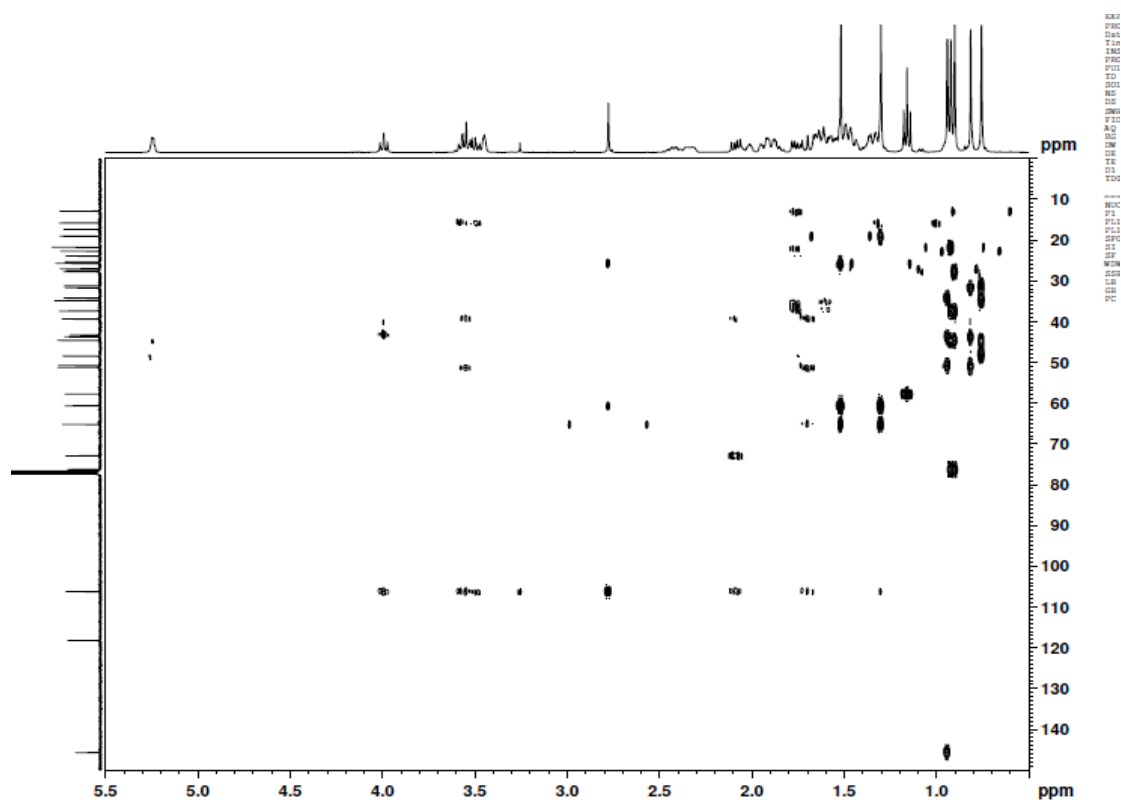
S46. HSQC spectrum of dysolenticin F (**6**) in CDCl_3



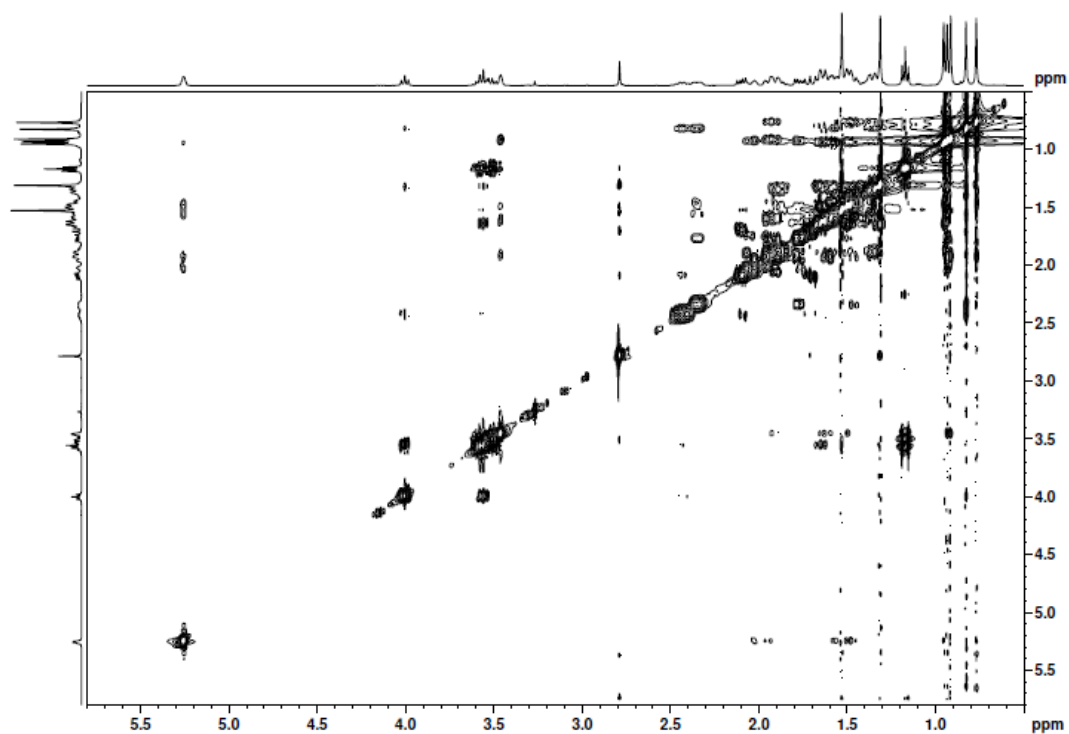
S47. ^1H - ^1H COSY spectrum of dysolenticin F (**6**) in CDCl_3



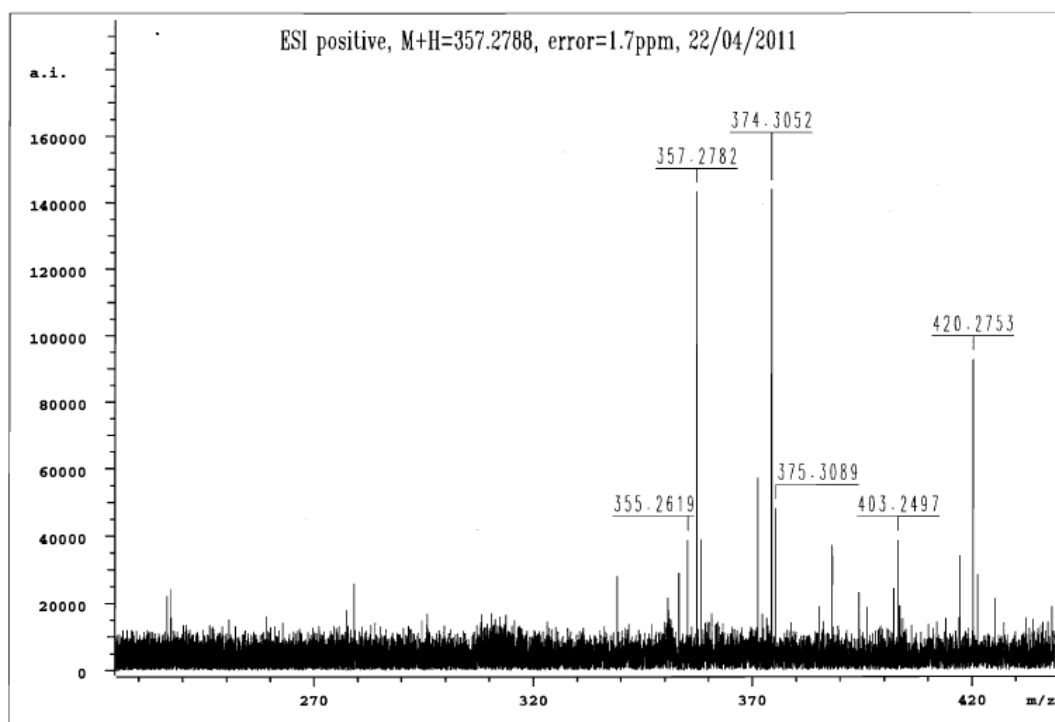
S48. HMBC spectrum of dysolenticin F (**6**) in CDCl_3



S49. NOESY spectrum of dysolenticin F (6) in CDCl₃



S50. HRESIMS of dysolenticin G (7)



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The figure is an FTIR spectrum plot. The y-axis is labeled '% Transmittance' and ranges from 10 to 105. The x-axis is labeled 'Wavenumbers (cm-1)' and ranges from 4000 to 500. The spectrum shows a broad absorption band around 3300 cm-1, a sharp peak at 1706.51 cm-1, and several peaks in the fingerprint region between 1500 and 500 cm-1. The following table lists the labeled peak wavenumbers in cm-1:

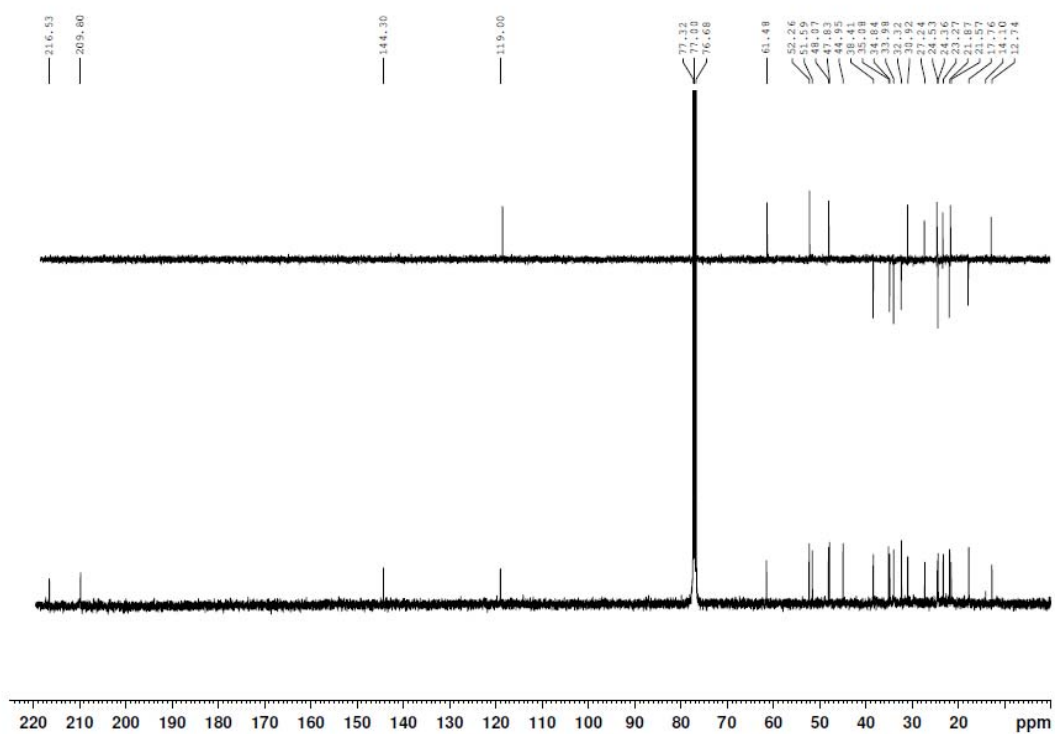
Wavenumber (cm-1)
3391.11
2955.31
2882.73
1706.51
1731.13
1622.27
1544.74
1485.01
1429.28
1384.88
1362.08
1307.22
1244.97
1204.64
1174.72
1129.56
1108.67
1090.06
1028.49
1004.86
989.86
918.14
886.92
839.03
734.32
700.92
661.72
648.00
575.91

¹H NMR spectrum of compound 10a in CDCl₃. The x-axis represents the chemical shift in ppm, ranging from 0.5 to 7.5. The spectrum shows several peaks, with a list of chemical shifts (δ) provided on the right side of the image. Integration values are shown below the baseline, with a total of 1.00 indicated for the aromatic region.

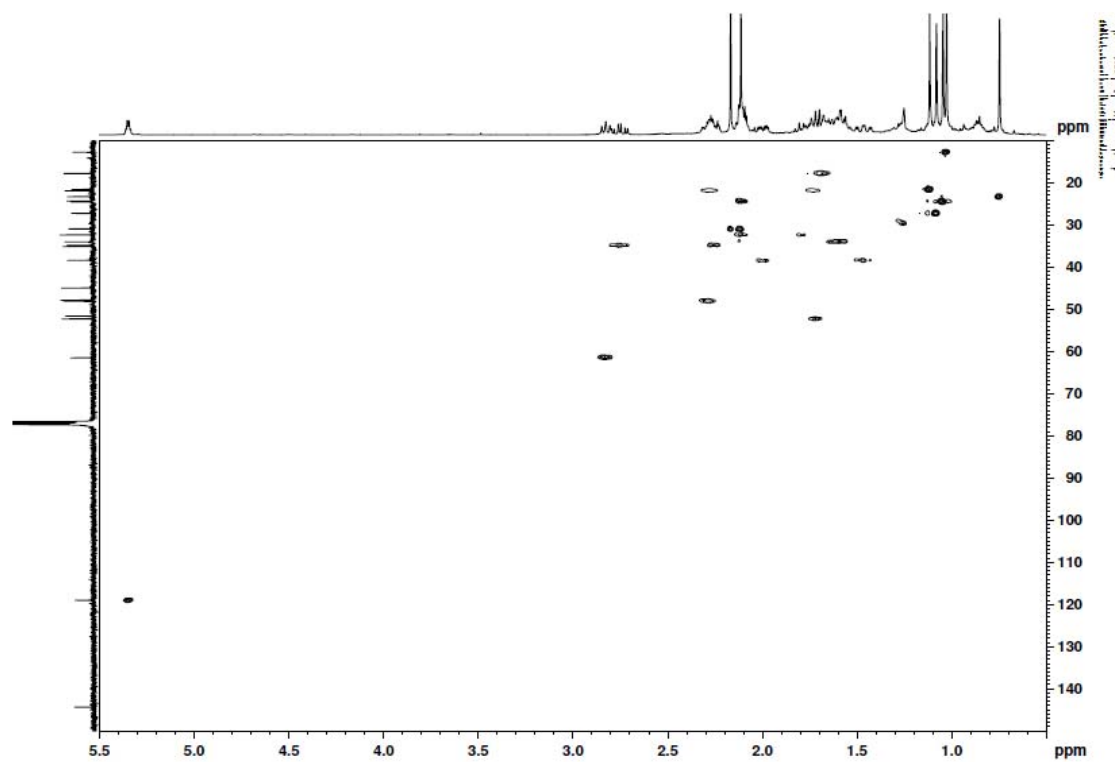
Chemical shifts (ppm): 7.265, 7.252, 5.344, 2.848, 2.826, 2.761, 2.761, 2.747, 2.311, 2.298, 2.281, 2.212, 2.263, 2.237, 2.237, 2.236, 2.245, 2.227, 2.166, 2.124, 2.113, 2.092, 2.084, 2.055, 2.039, 1.990, 1.982, 1.882, 1.868, 1.804, 1.781, 1.770, 1.755, 1.748, 1.741, 1.737, 1.719, 1.698, 1.678, 1.664, 1.650, 1.630, 1.615, 1.605, 1.584, 1.567, 1.560, 1.557, 1.505, 1.495, 1.469, 1.454, 1.434, 1.425, 1.280, 1.247, 1.236, 1.216, 1.129, 1.115, 1.092, 1.084, 1.044, 1.045, 1.027, 0.986, 0.970, 0.889, 0.868, 0.840, 0.822, 0.795, 0.747.

Integration values (from left to right): 1.18, 1.24, 0.54, 2.08, 0.78, 3.44, 1.45, 1.47, 1.07, 1.58, 1.26, 1.01, 0.78, 1.04, 0.05, 0.05, 1.22, 1.17, 1.33, 1.33, 2.16, 1.13, 1.04, 1.07, 0.70, 3.22, 3.23, 3.13, 0.66, 1.13.

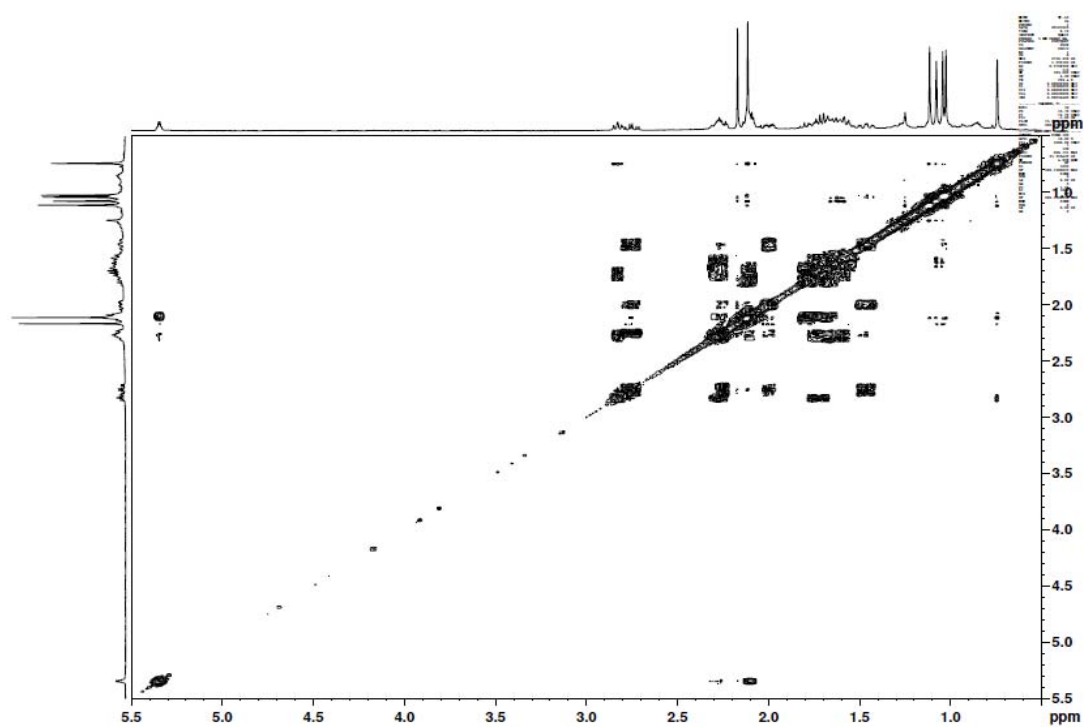
S53. ^{13}C NMR spectrum of dysolenticin G (7) in CDCl_3



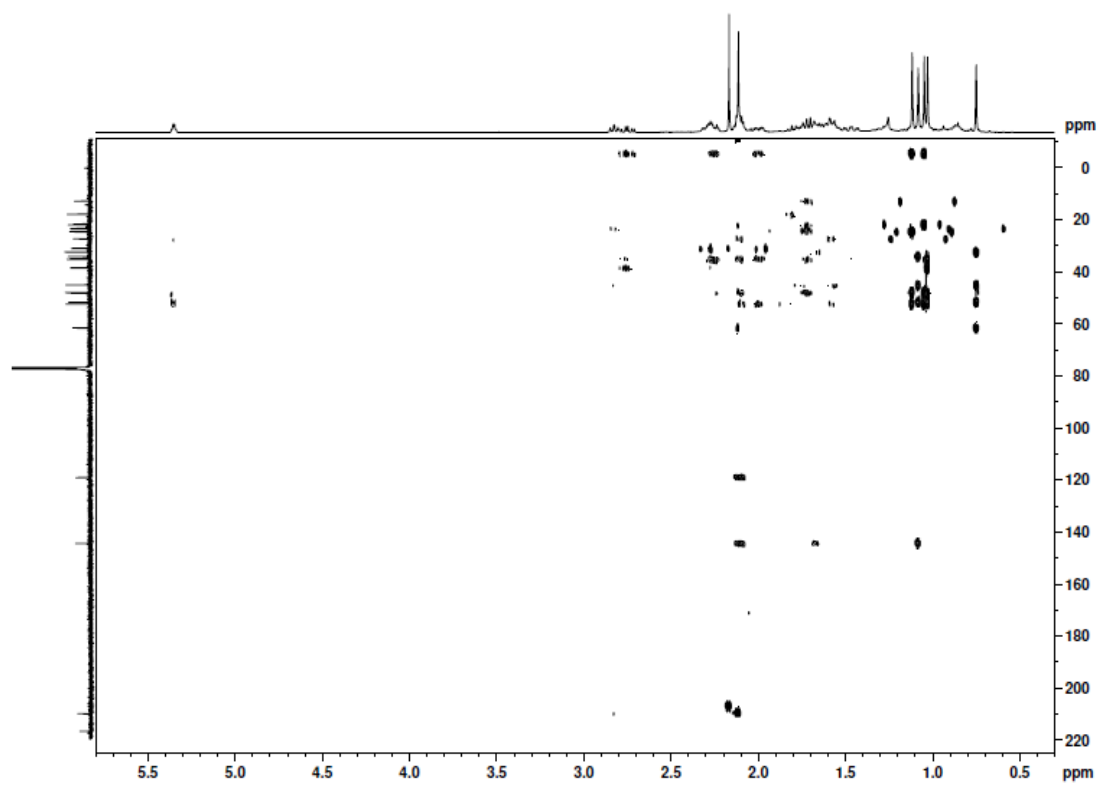
S54. HSQC spectrum of dysolenticin G (7) in CDCl_3



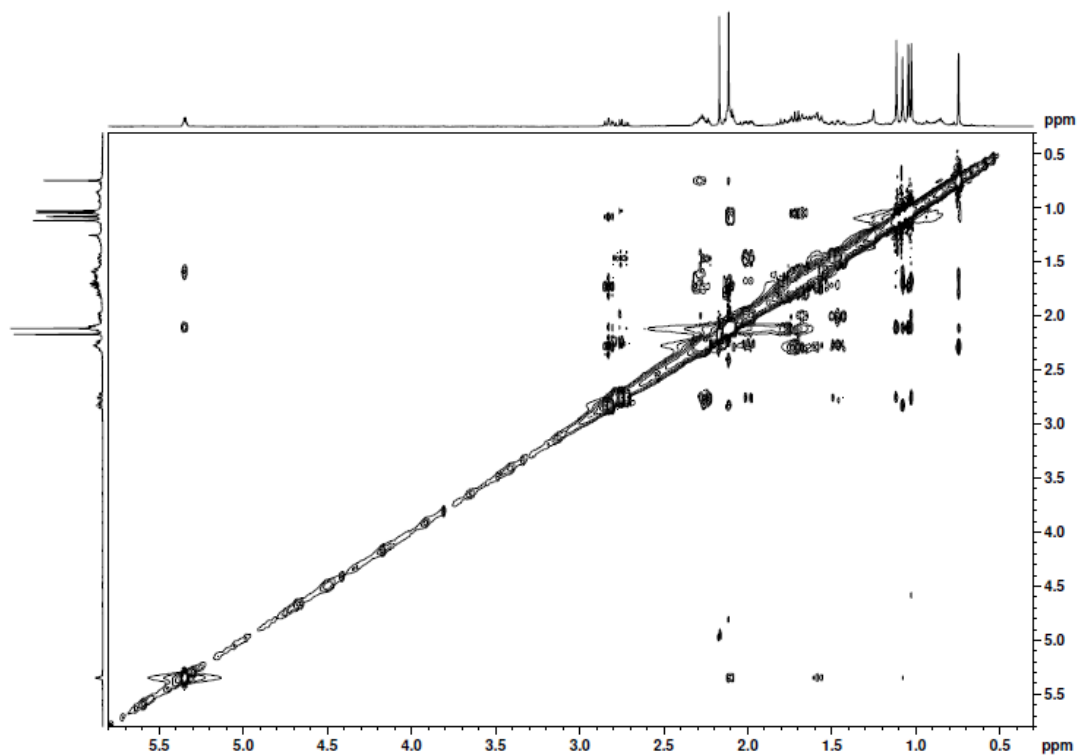
S55. ^1H - ^1H COSY spectrum of dysolenticin G (7) in CDCl_3



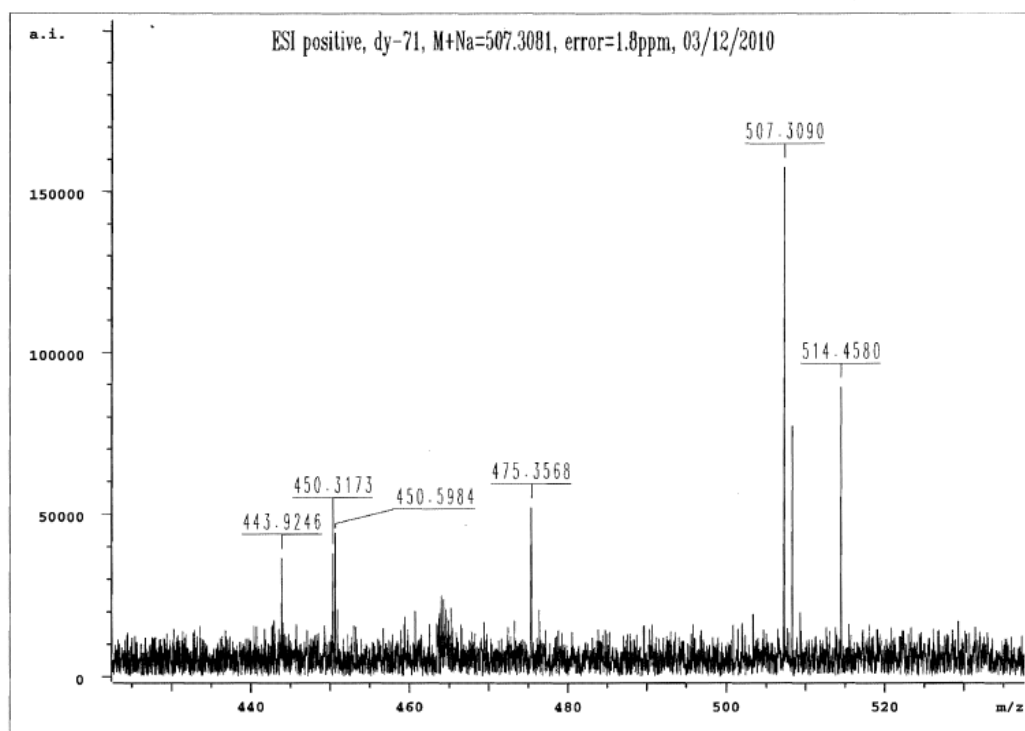
S56. HMBC spectrum of dysolenticin G (7) in CDCl_3



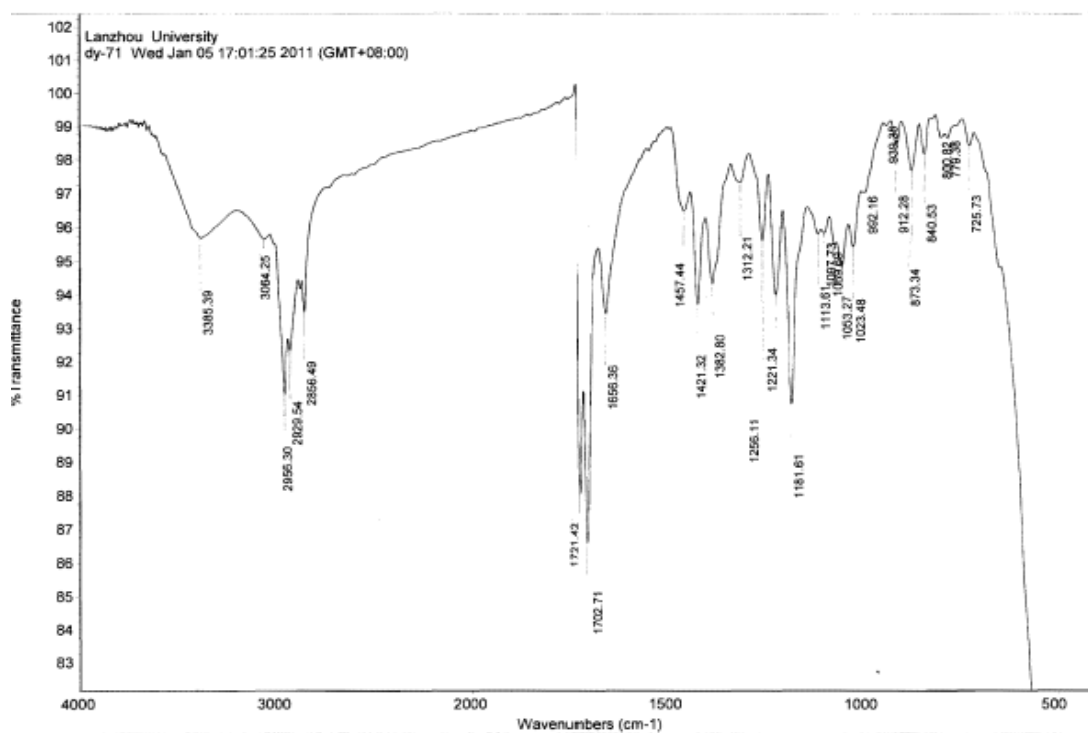
S57. NOESY spectrum of dysolenticin G (7) in CDCl₃



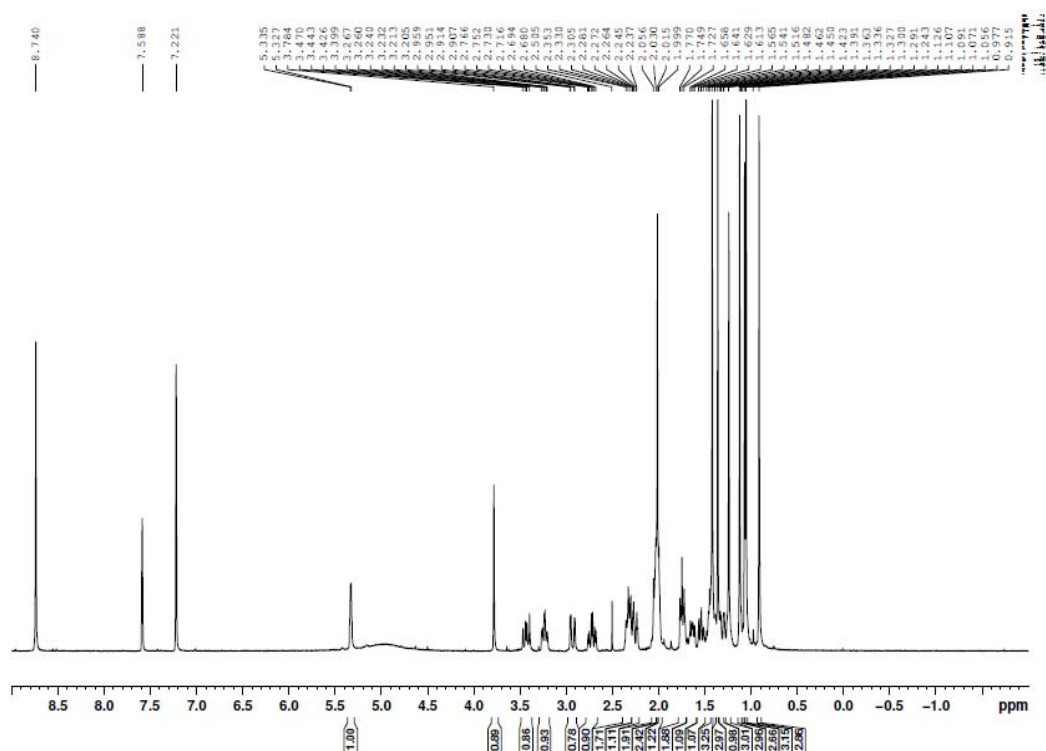
S58. HRESIMS of dysolenticin H (9)



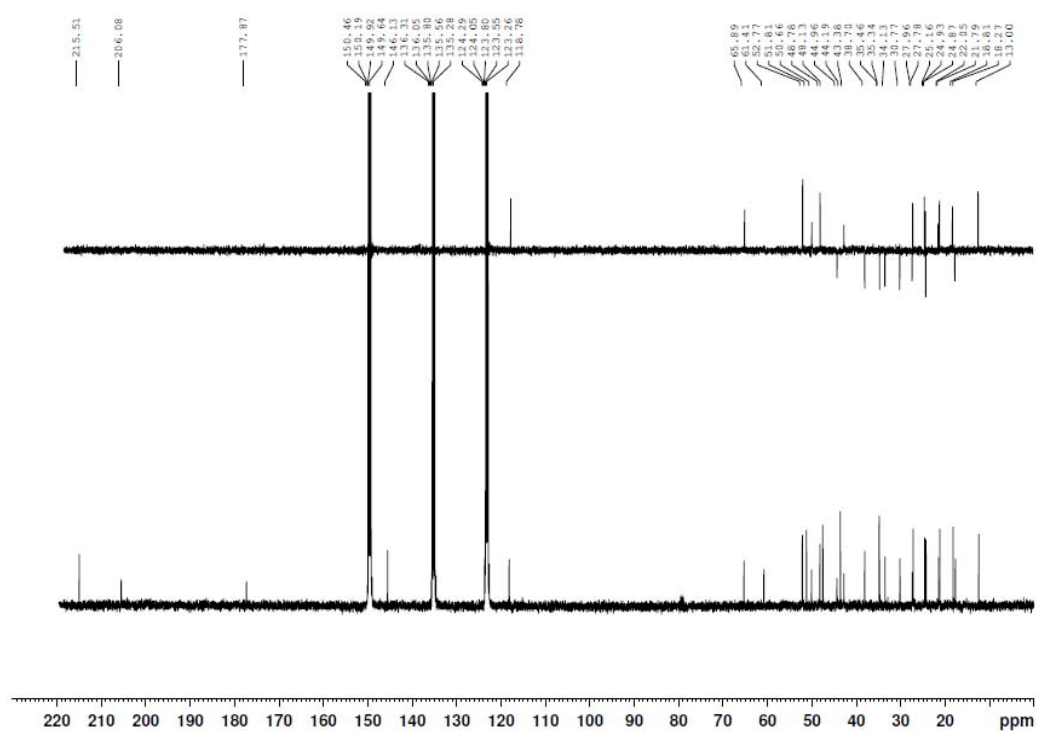
S59. IR (KBr disc) spectrum of dysolenticlin H (**9**)



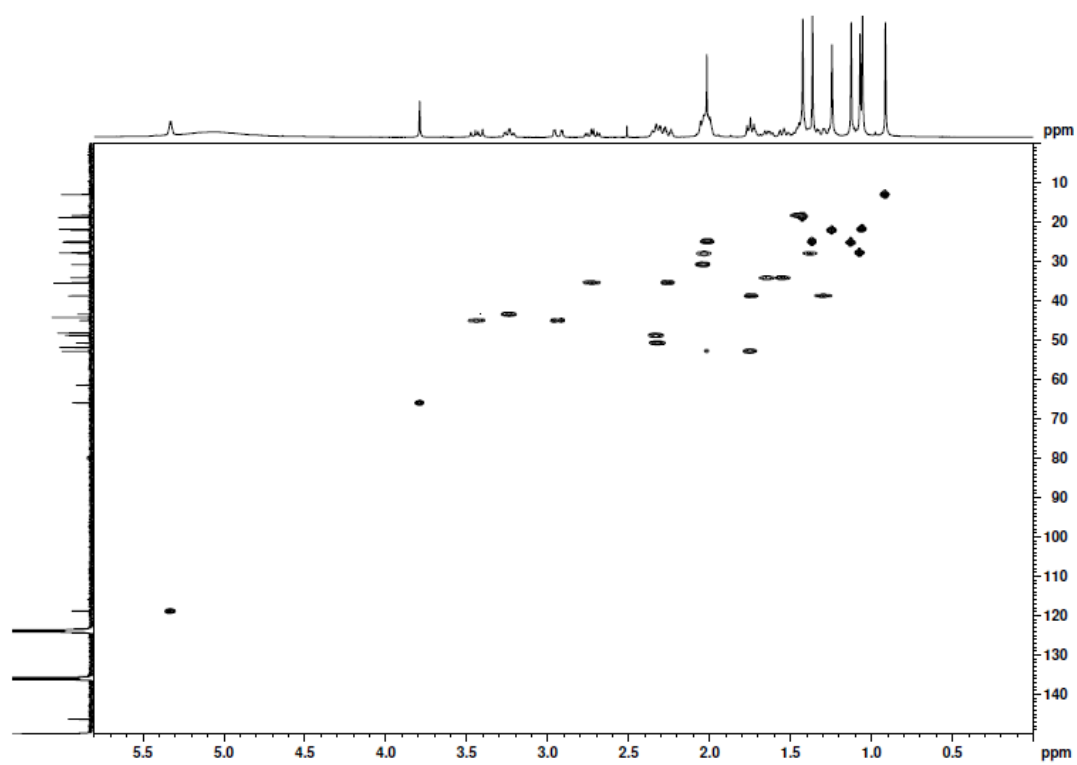
S60. ^1H NMR spectrum of dysolenticin H (**9**) in $\text{C}_5\text{D}_5\text{N}$



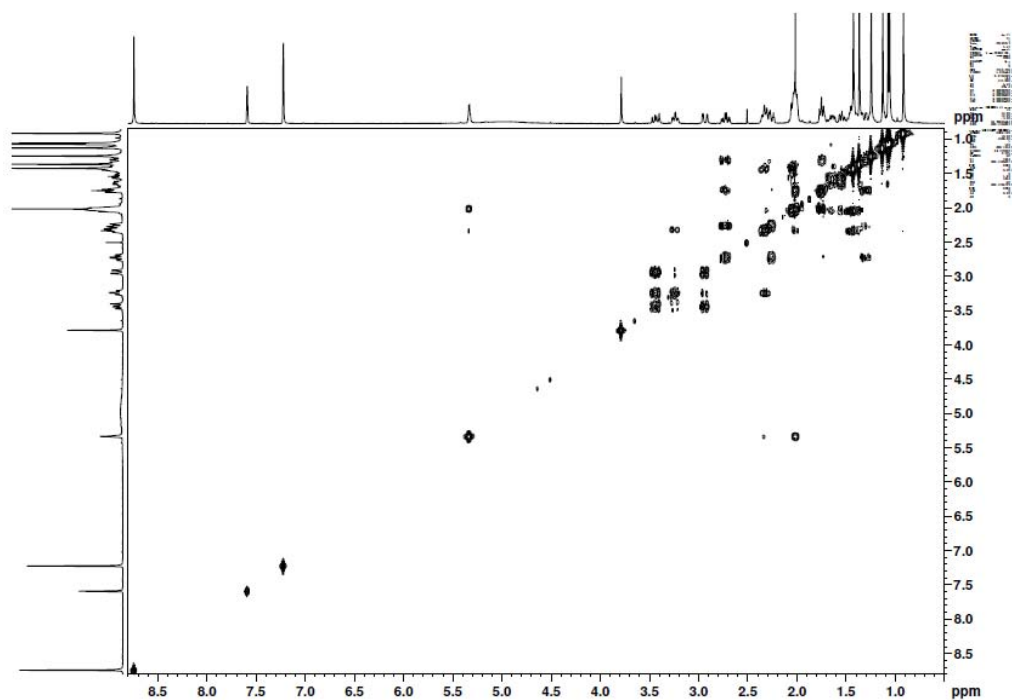
S61. ^{13}C NMR spectrum of dysolenticin H (9) in $\text{C}_5\text{D}_5\text{N}$



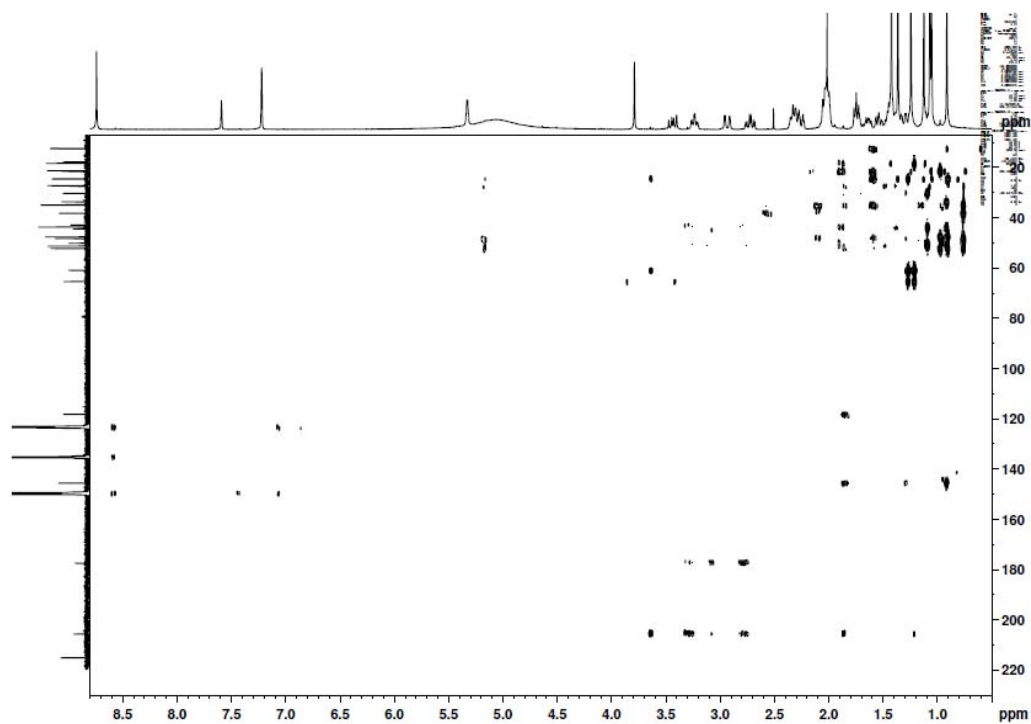
S62. HSQC spectrum of dysolenticellin H (9) in $\text{C}_5\text{D}_5\text{N}$



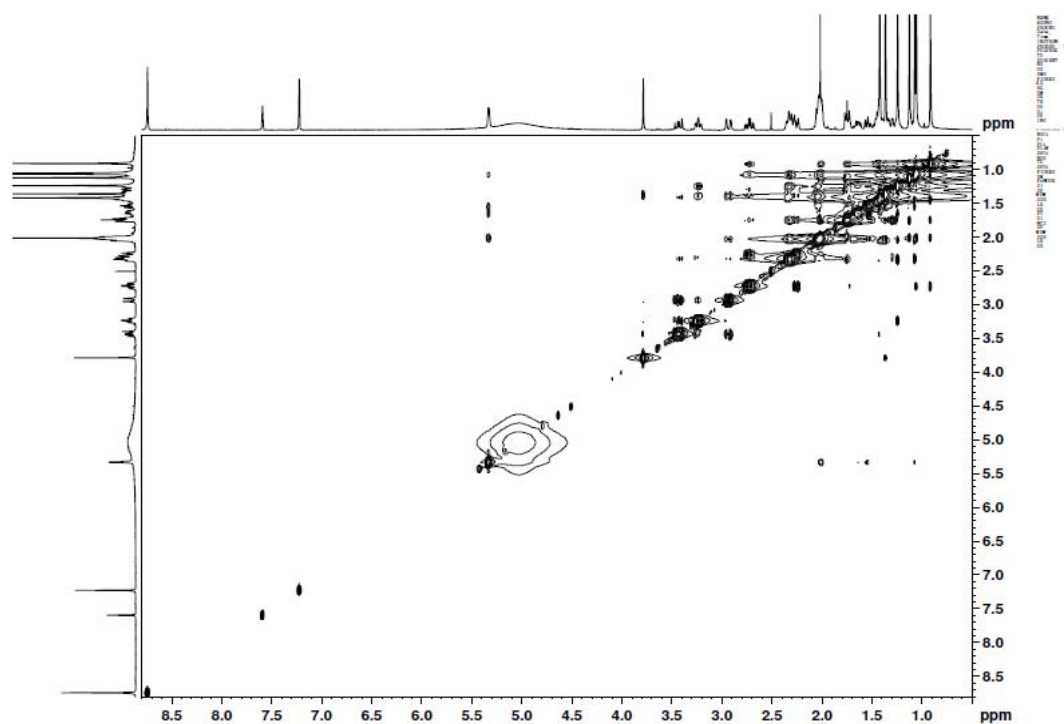
S63. ^1H - ^1H COSY spectrum of dysolenticin H (**9**) in $\text{C}_5\text{D}_5\text{N}$



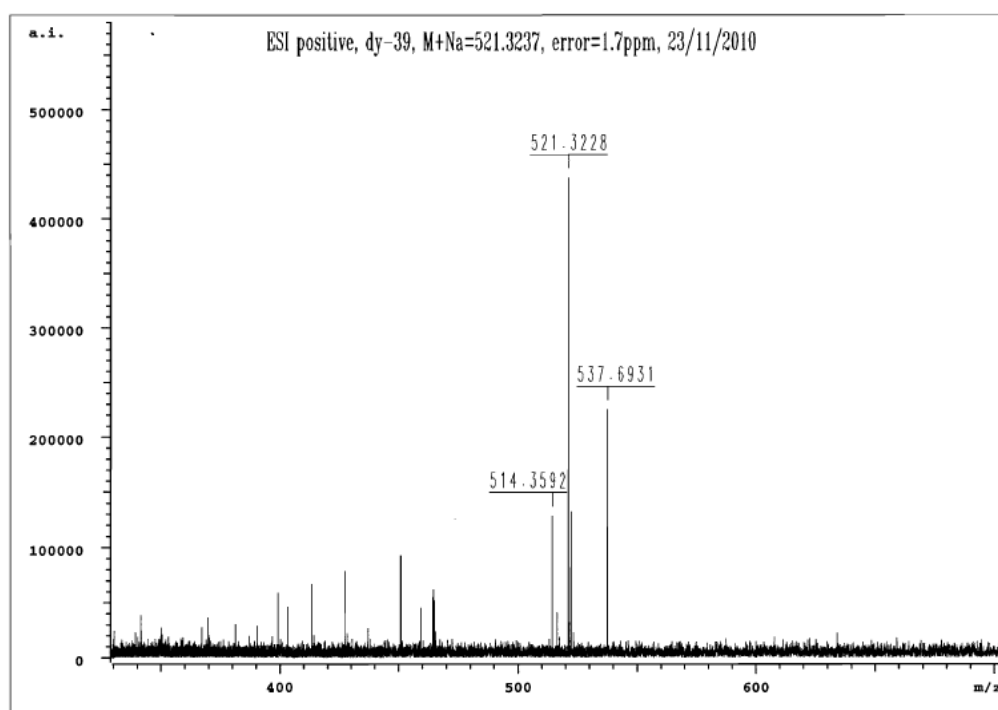
S64. HMBC spectrum of dysolenticin H (**9**) in $\text{C}_5\text{D}_5\text{N}$



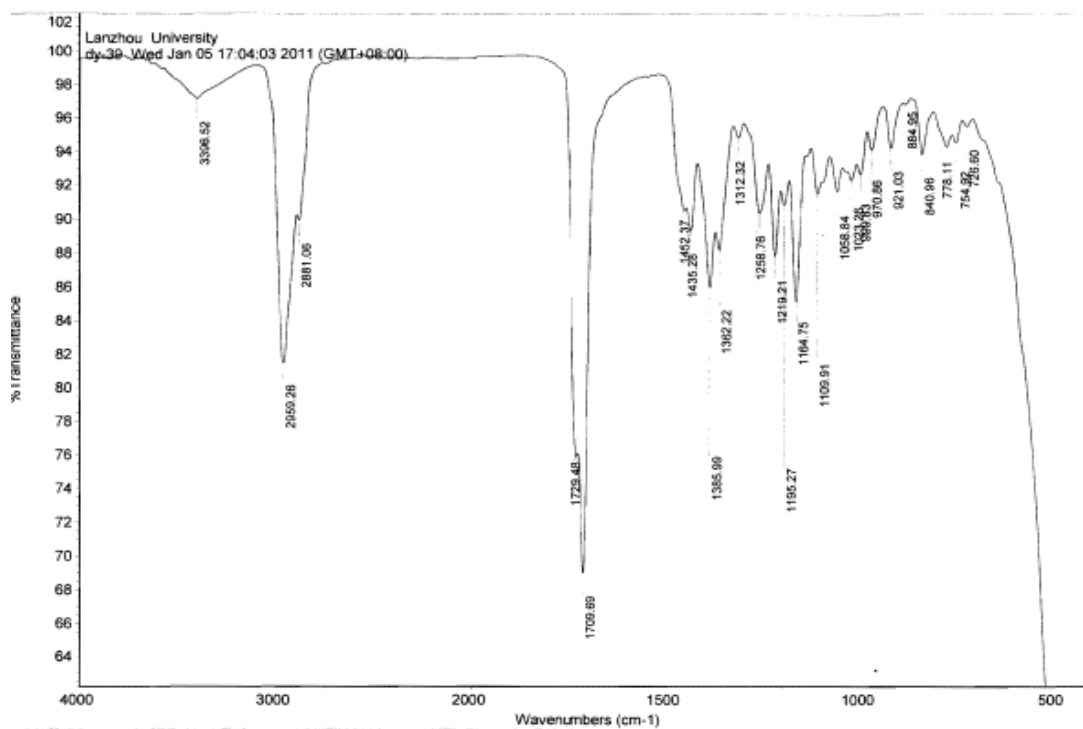
S65. NOESY spectrum of dysolenticin H (**9**) in C₅D₅N



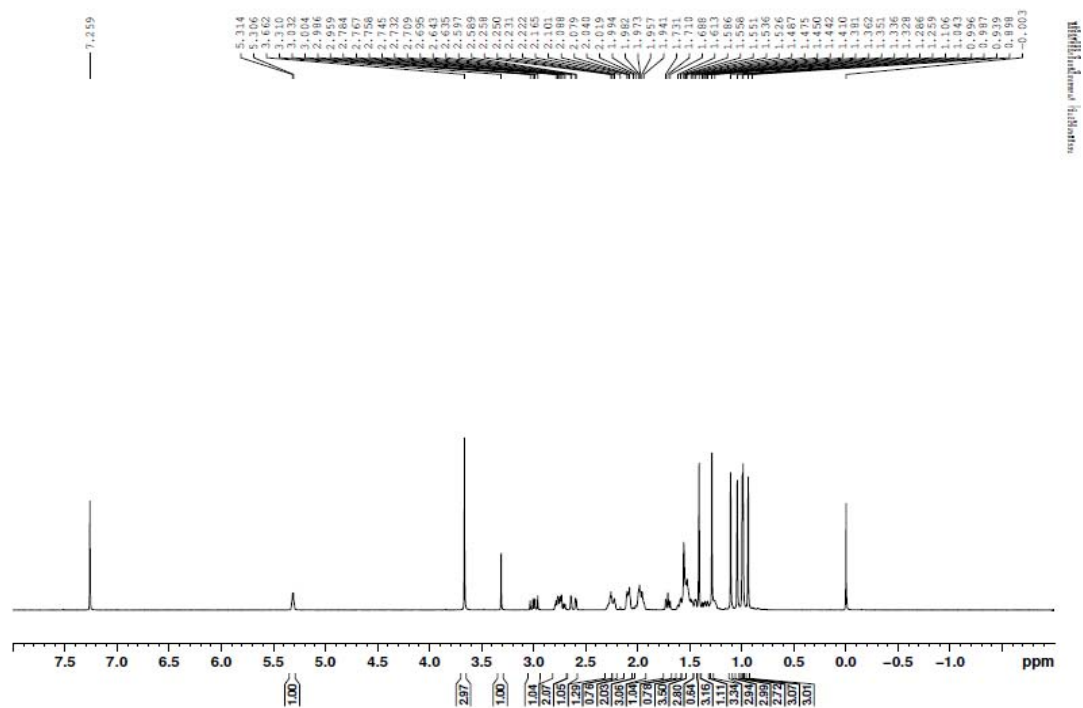
S66. HRESIMS of dysolenticin I (**10**)



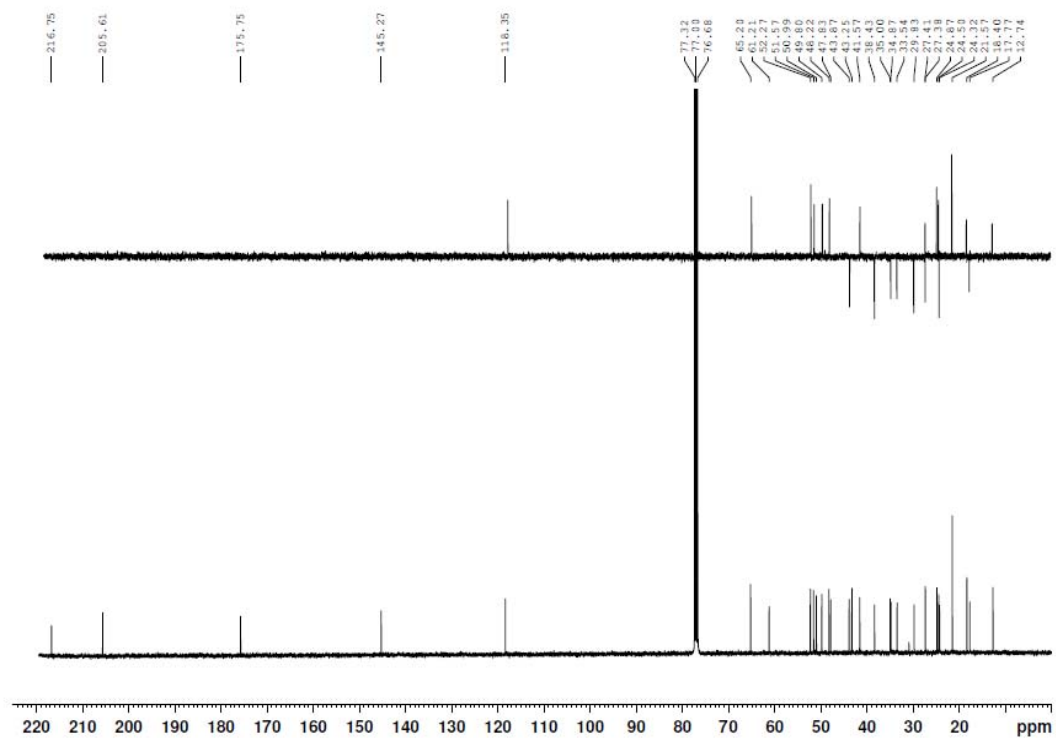
S67. IR (KBr disc) spectrum of dysolenticin I (**10**)



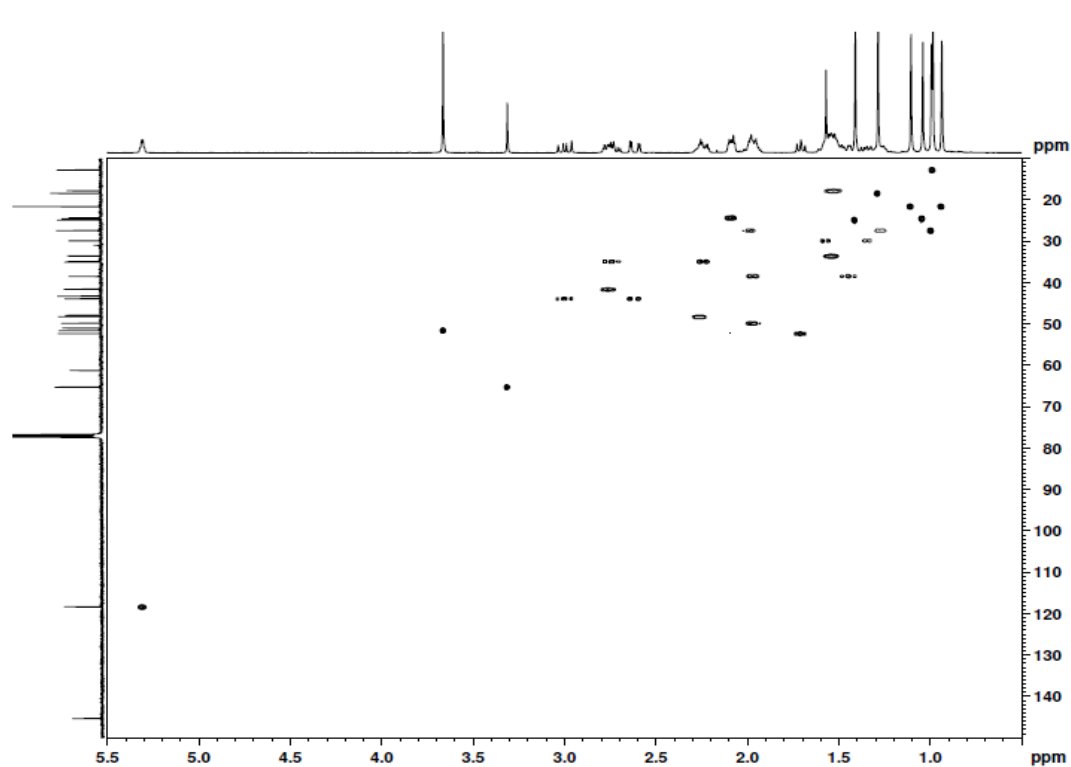
S68. ^1H NMR spectrum of dysolenticin I (**10**) in CDCl_3



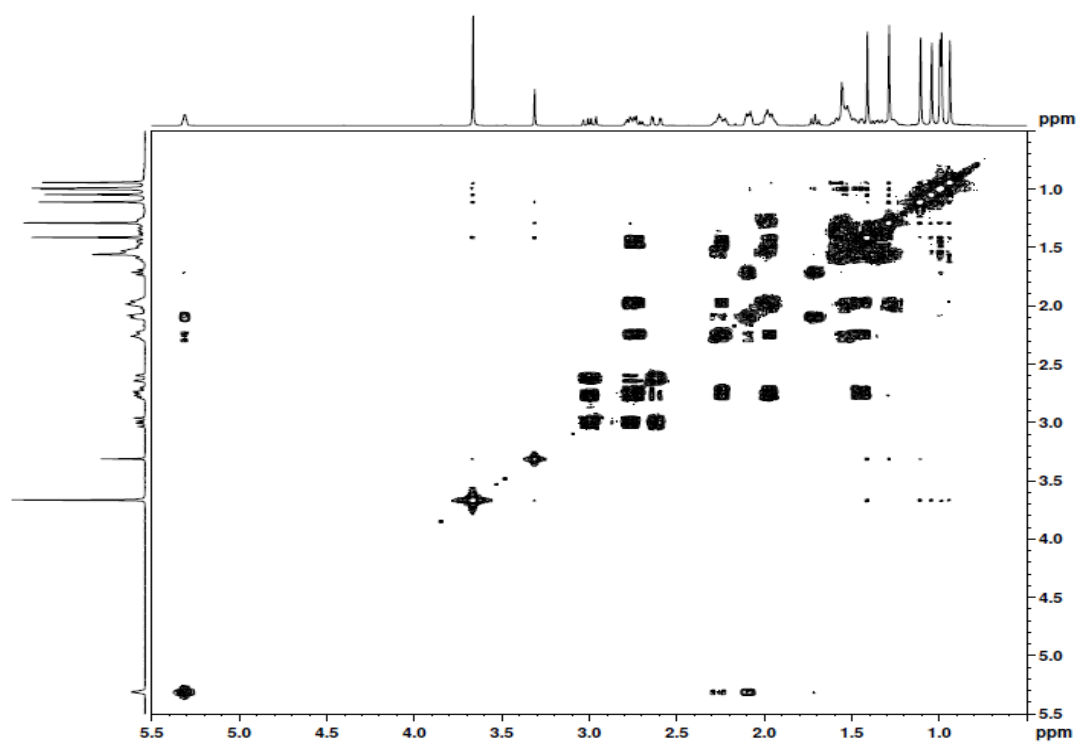
S69. ^{13}C NMR spectrum of dysolenticin I (**10**) in CDCl_3



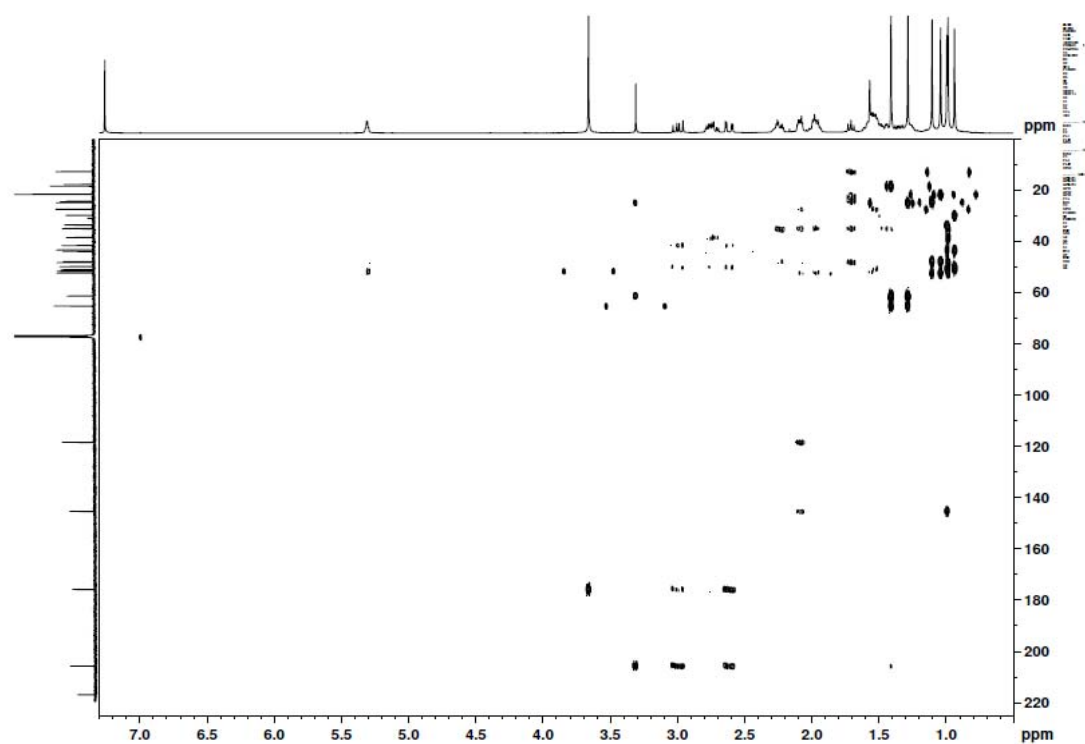
S70. HSQC spectrum of dysolenticin I (**10**) in CDCl_3



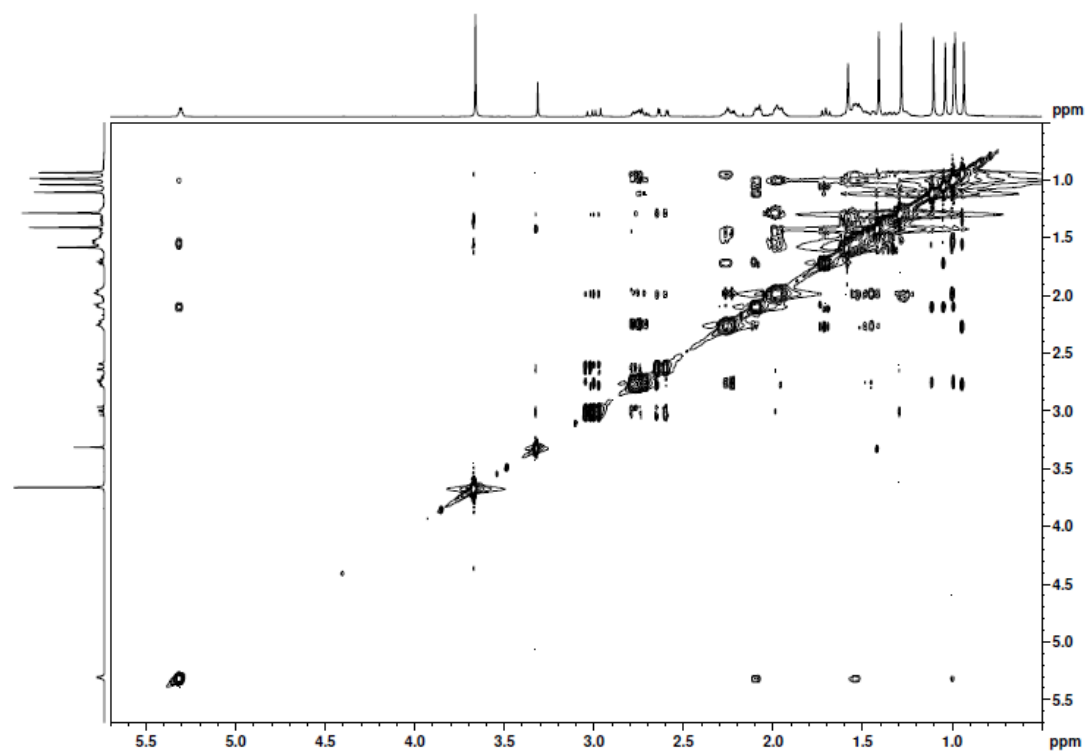
S71. ^1H - ^1H COSY spectrum of dysolenticin I (**10**) in CDCl_3



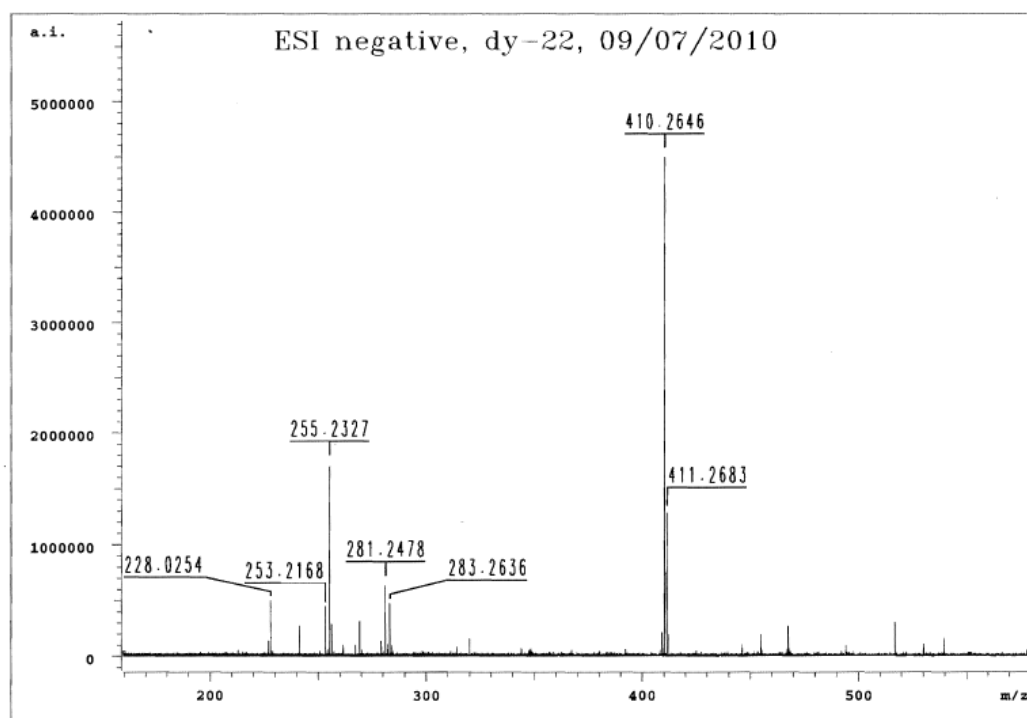
S72. HMBC spectrum of dysolenticin I (**10**) in CDCl_3



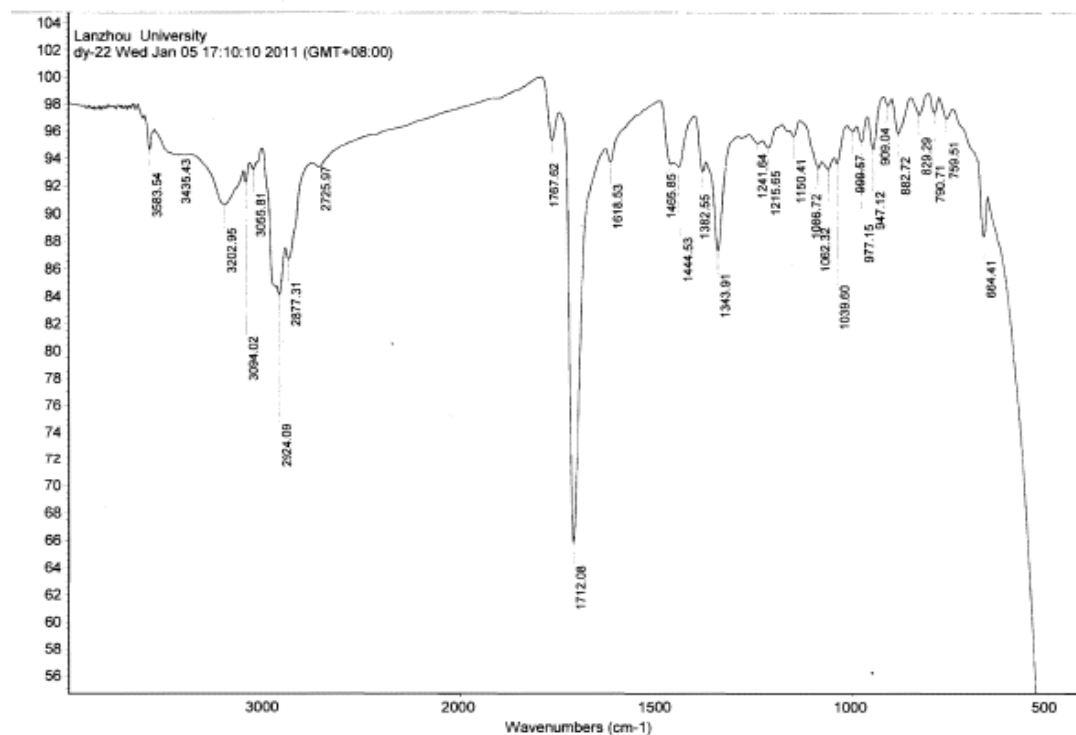
S73. NOESY spectrum of dysolenticin I (**10**) in CDCl₃



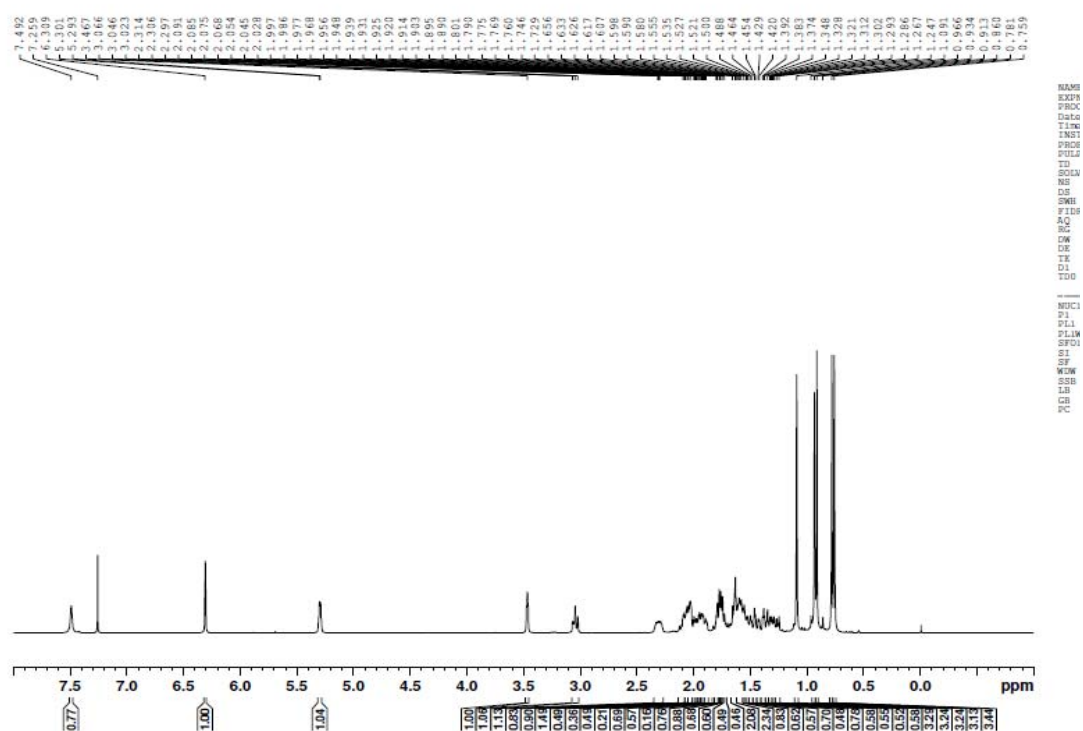
S74. HRESIMS of dysolenticin J (**12**)



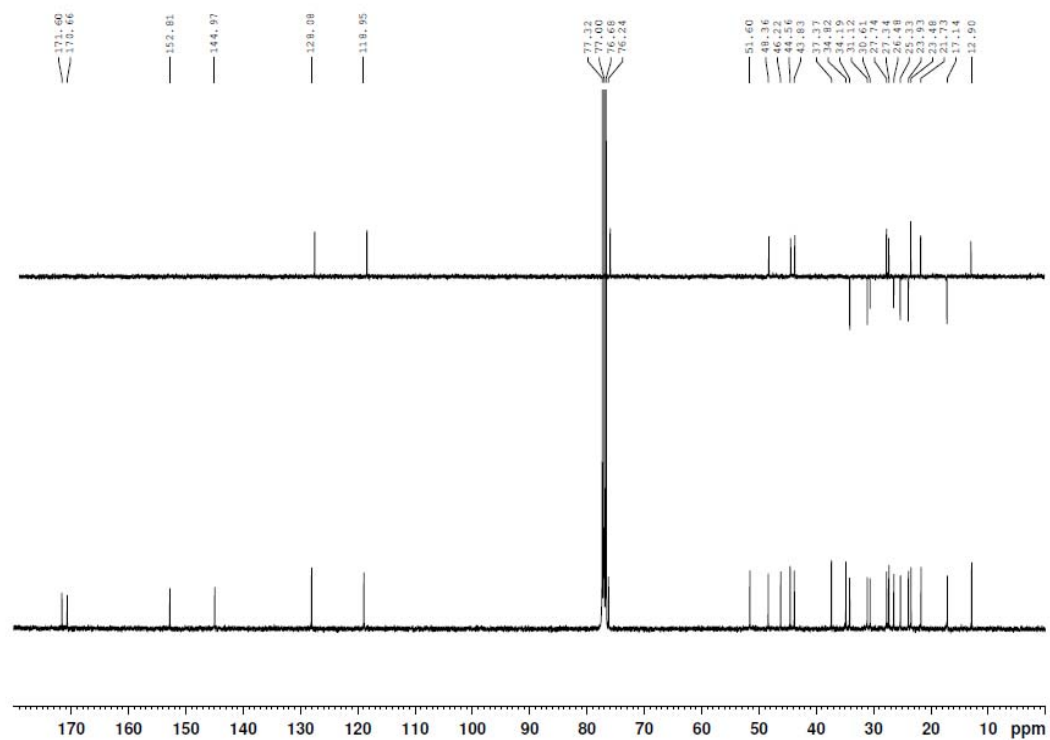
S75. IR (KBr disc) spectrum of dysolenticin J (**12**)



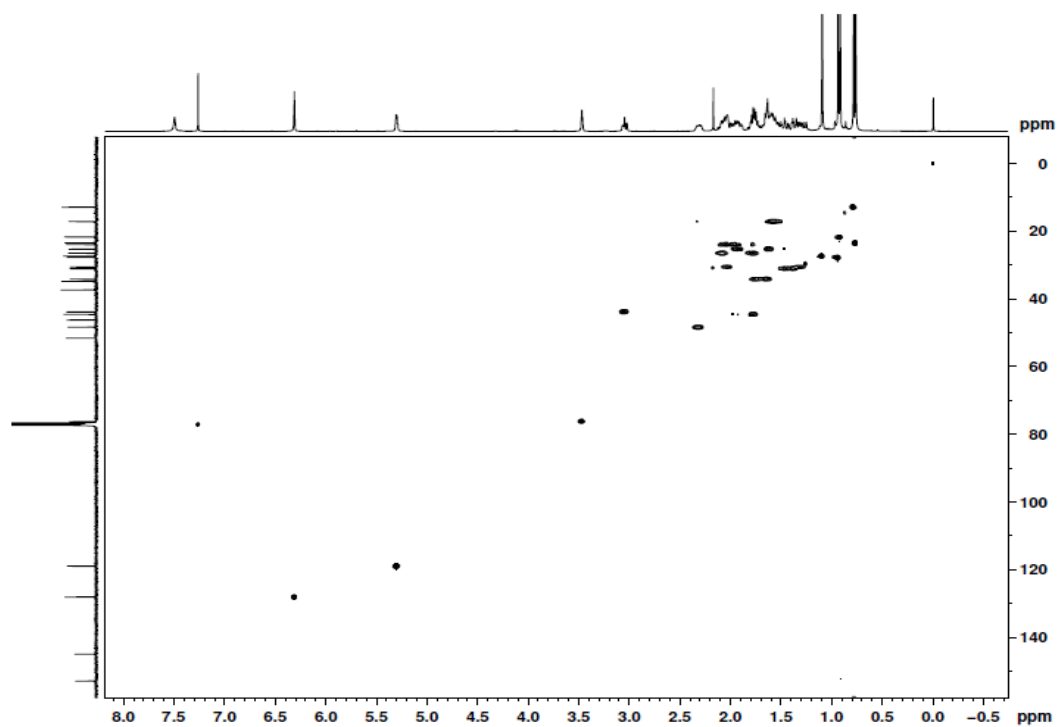
S76. ¹H NMR spectrum of dysolenticlin J (**12**) in CDCl₃



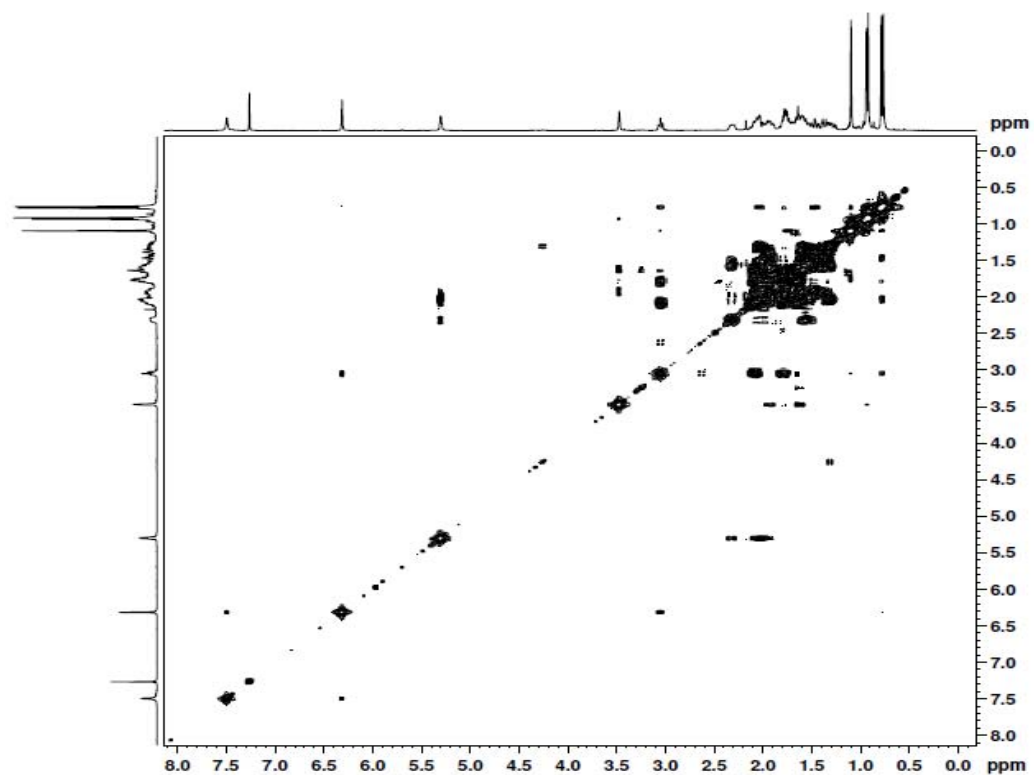
S77. ^{13}C NMR spectrum of dysolenticin J (**12**) in CDCl_3



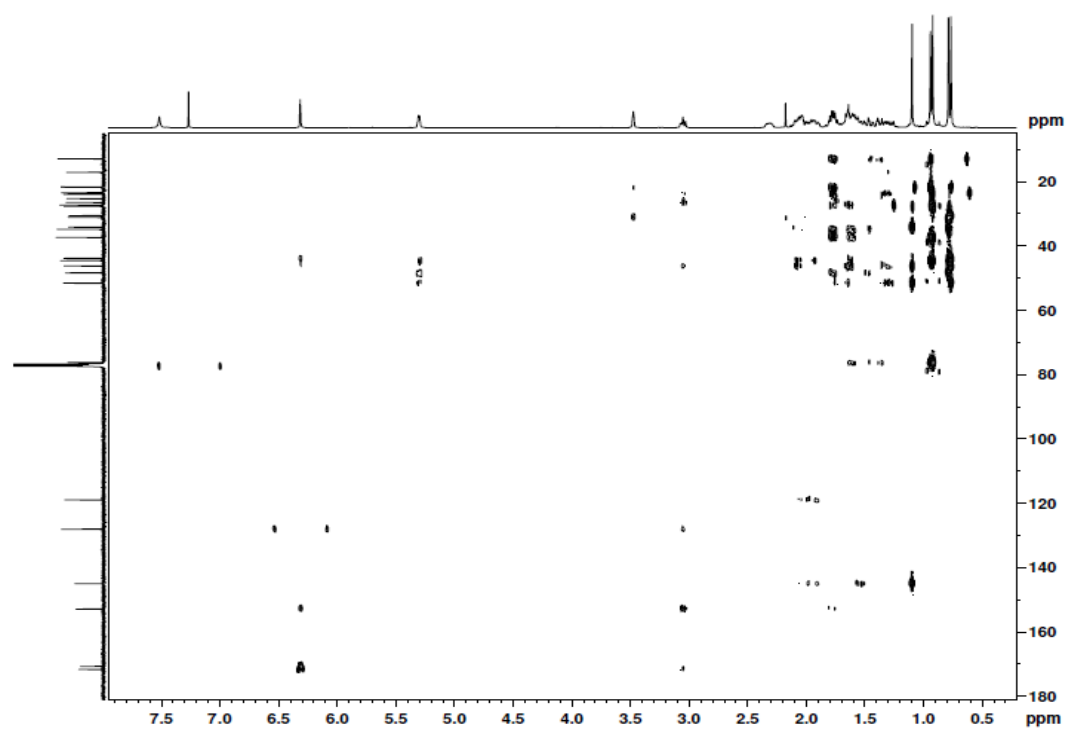
S78. HSQC spectrum of d dysolenticin J (**12**) in CDCl_3



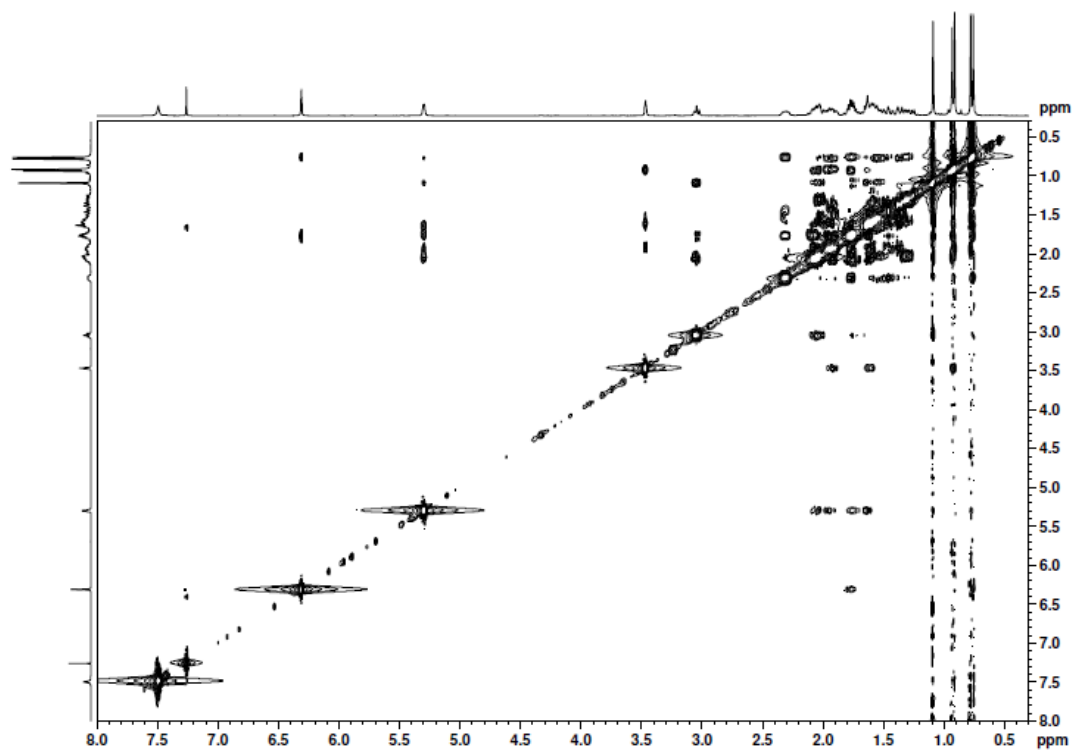
S79. ^1H - ^1H COSY spectrum of dysolenticin J (**12**) in CDCl_3



S80. HMBC spectrum of dysolenticin J (**12**) in CDCl_3



S81. NOESY spectrum of dysolenticellin J (**12**) in CDCl₃



S82. Selected key HMBC correlations for new compounds **1-7**, **9-10**, and **12**.

