

Supporting Information

Structurally Diverse Polycyclic Salicylaldehyde Derivative Enantiomers from a Marine-Derived Fungus *Eurotium* sp. SCSIO F452

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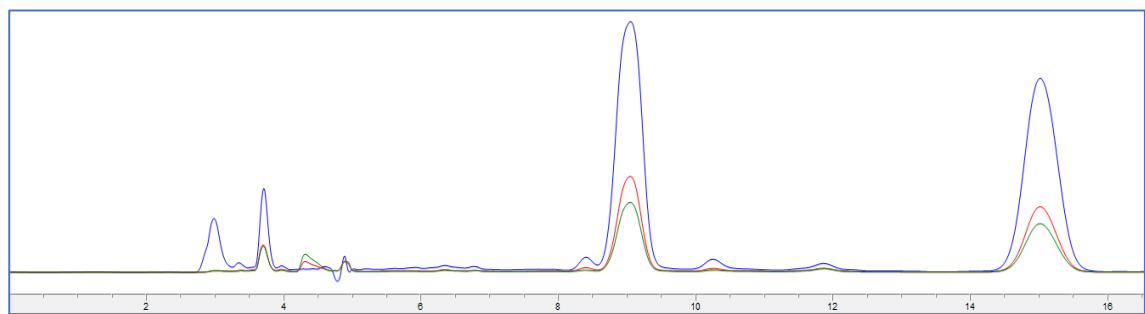


Figure S1 The chiral HPLC chromatogram of **1**.

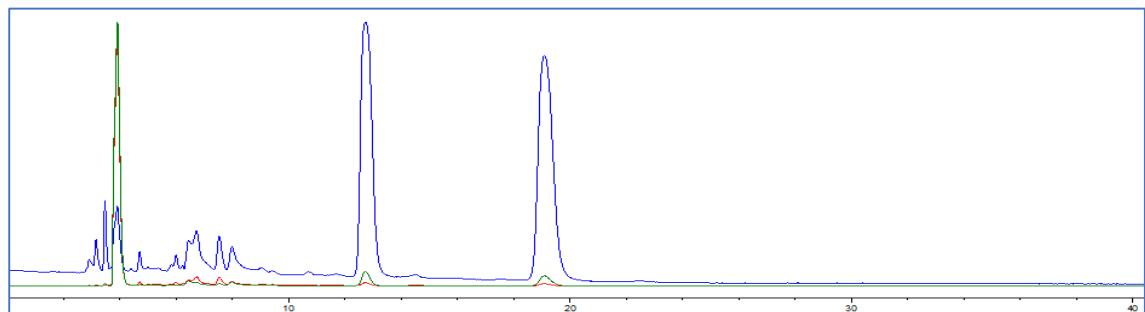


Figure S2 The chiral HPLC chromatogram of **2**.

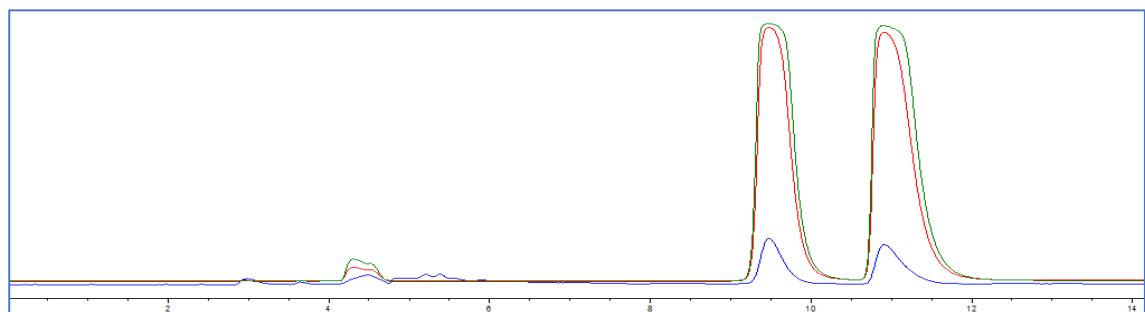


Figure S3 The chiral HPLC chromatogram of **4**.

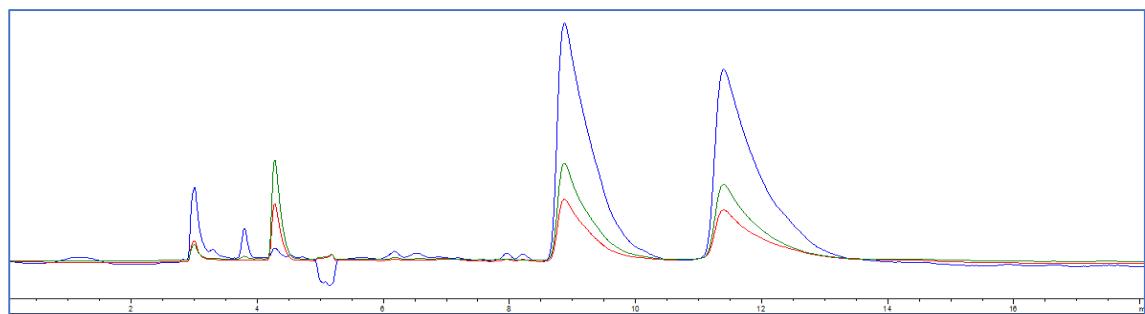


Figure S4 The chiral HPLC chromatogram of **5**.

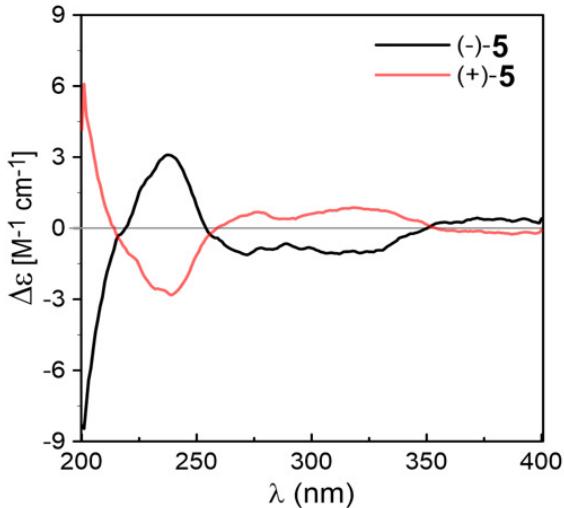


Figure S5 Comparison between experimental ECD spectra of (+)-5 and (-)-5.

Computational Details

1. Methods

The Molecular Merck force field (MMFF) calculations were done using Spartan'14 program (Wavefunction Inc., Irvine, CA, USA). The density functional theory (DFT) and time-dependent density functional theory (TDDFT) calculations were performed with Gaussian09 program package.[1] Double-hybrid (DH) DFT calculations were conducted with ORCA 4.2.1 program package using RIJK approximation, tight SCF criteria, and grid 6 integrity.[2]

Truncated structures (*8R,1''S,2''S*)-**1**, (*8R,1''S,2''R*)-**1**, (*7S,1''R,2''R,5''R,6''S*)-**2**, (*7S,1''R,2''R,5''R,6''R*)-**2**, and (*S*)-**4** were applied to theoretical computations. The MMFF conformers within 10 kcal/mol of the lowest energy conformer were subjected to DFT geometry optimizations at the B3LYP[3]/def2-SVP[4] level for **1**, and B3LYP-GD3BJ[5]/Def2-SVP level for **2** and **4**, respectively, both with the solvation model PCM for MeOH. Frequency calculations were run at the same corresponding levels to estimate their relative thermal (ΔE) and free energies (ΔG) at 298.15K. For **1**, energies of the low-energy conformers were recalculated at the M06-2X[6]/def2-TZVP[4]/SMD(MeOH) level for **1**, and DH-DFT method at the PWPPB95[7]-D3BJ/def2-TZVPP[4]/SMD(MeOH) level for **2** and **4**.

For calculations of the ^{13}C NMR shifts, low-energy conformers of the (*8R,1''S,2''S*)-**1** and (*8R,1''S,2''R*)-**1** were subjected to NMR calculations using the gauge including atomic orbitals (GIAO) method[8] at the mPW1PW91/6-311+G(d,p)/PCM(dmso) level.[9] The unscaled chemical shifts (δ_u) were computed using TMS as reference standard according to $\delta_u = \sigma_0 - \sigma^x$ (where σ^x is the Boltzmann averaged shielding tensor and σ_0 is the shielding tensor of TMS computed at the same level employed for σ^x). The Boltzmann averaging was done at 298.15 K using the relative energies obtained from the single-point NMR calculations. The goodness of fit between the predicted ^{13}C NMR data for

the two stereoisomers and the experimental data of compound **1** were evaluated by the modified DP4 probability (DP4+)[10], which was obtained using the unscaled shifts.

For simulations of the electronic circular dichroism (ECD) spectra, the TDDFT calculations were performed using the hybrid M06[6] and M06-2X functionals for *(8R,1"S,2"S)-1* and hybrid PBE1PBE (PBE0)[11] and M06-2X functionals for *(7S,1"R,2"R,5"R,6"S)-2* and *(S)-4*, both with Ahlrichs' basis set TZVP[12] and PCM solvent (MeOH) model. The calculated ECD spectra of individual conformers were generated by the program SpecDis[13] using a Gaussian band shape from dipole-length dipolar and rotational strengths. The equilibrium population of each conformer at 298.15K was calculated from its ΔG value using Boltzmann statistics. The overall ECD spectra were then generated according to the Boltzmann weighting of each conformer.

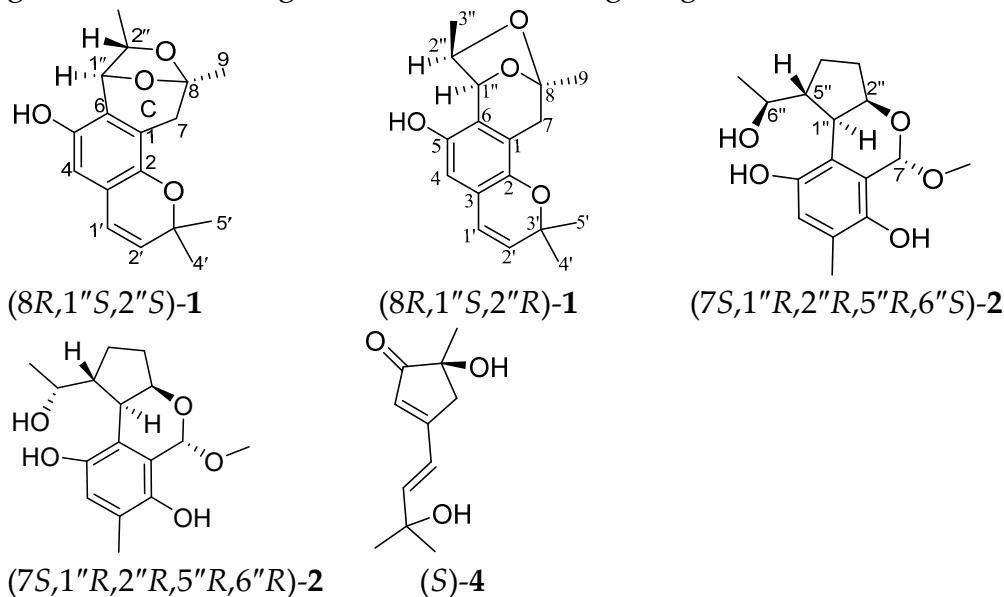


Figure S6. Structures of compounds applied for theoretical calculations.

2. Results

Table S1. Calculated relative thermal energies (ΔE), relative free energies (ΔG^a), and equilibrium populations (P)^b of low-energy conformers *(8R,1"S,2"S)-1*, *(8R,1"S,2"R)-1*, *(7S,1"R,2"R,5"R,6"S)-2*, *(7S,1"R,2"R,5"R,6"R)-2*, and *(S)-4* in MeOH solution.

conformer	ΔE (kcal/mol)	ΔG (kcal/mol)	P (%)
<i>(8R,1"S,2"S)-1</i>			
<i>(8R,1"S,2"S)-1a</i>	0.026	0.0	43.4
<i>(8R,1"S,2"S)-1b</i>	0.0	0.007	42.9
<i>(8R,1"S,2"S)-1c</i>	1.160	1.063	7.2
<i>(8R,1"S,2"S)-1d</i>	1.173	1.130	6.4
<i>(8R,1"S,2"R)-1</i>			
<i>(8R,1"S,2"R)-1a</i>	0.0	0.0	46.2

(8 <i>R</i> ,1" <i>S</i> ,2" <i>R</i>)- 1b	0.009	0.003	46.0
(8 <i>R</i> ,1" <i>S</i> ,2" <i>R</i>)- 1c	1.593	1.398	4.4
(8 <i>R</i> ,1" <i>S</i> ,2" <i>R</i>)- 1d	1.632	1.529	3.5
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>S</i>)- 2			
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>S</i>)- 2a	0.0	0.0	51.8
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>S</i>)- 2b	0.601	0.418	25.6
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>S</i>)- 2c	2.240	0.790	13.7
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>S</i>)- 2d	1.10	1.073	8.5
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2			
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2a	0.688	0.0	31.9
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2b	0.0	0.035	30.1
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2c	1.308	0.516	13.4
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2d	0.910	0.603	11.5
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2e	0.762	0.828	7.9
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2f	1.389	1.350	3.3
(7 <i>S</i> ,1" <i>R</i> , 2" <i>R</i> ,5" <i>R</i> ,6" <i>R</i>)- 2g	1.625	1.647	2.0
(<i>S</i>)- 4			
(<i>S</i>)- 4a	0.0	0.0	65.7
(<i>S</i>)- 4b	1.086	0.903	14.3
(<i>S</i>)- 4c	1.075	0.845	15.8
(<i>S</i>)- 4d	2.326	1.628	4.2

^a Compound **1** at the M06-2X/def2-TZVP/SMD(MeOH)//B3LYP/def2-SVP/PCM(MeOH) level; compounds **2** and **4** at the PWPPB95-D3/def2-tzvpp/SMD(MeOH)//B3LYP-GD3BJ/PCM(MeOH) level.

^b From ΔG values at 298.15 K.

Table S2. Calculated ¹³C NMR data for (8*R*,1"*S*,2"*S*)-**1** and (8*R*,1"*S*,2"*R*)-**1** and their goodness of fit with the measured shifts of **1**.

position	(8 <i>R</i> ,1" <i>S</i> ,2" <i>S</i>)- 1			(8 <i>R</i> ,1" <i>S</i> ,2" <i>R</i>)- 1			measured δ _{exp}
	σ ^x	δ _u	δ _s	σ ^x	δ _u	δ _s	
C-2	37.0	149.7	143.6	36.9	149.8	143.8	143.0
C-5	37.1	149.6	143.5	35.6	151.1	145.1	145.7
C-2'	47.9	138.8	133.1	48.0	138.7	133.2	131.6
C-6	56.0	130.7	125.4	58.9	127.8	122.7	125.6
C-1'	57.7	129.0	123.7	57.6	129.1	124.0	122.6
C-1	59.1	127.6	122.4	58.4	128.4	123.3	120.6
C-3	61.3	125.4	120.3	61.2	125.5	120.6	120.1
C-4	73.7	113.0	108.5	74.0	112.8	108.4	110.3
C-8	77.1	109.7	105.2	77.5	109.2	105.0	106.2
C-2"	102.0	84.7	81.3	104.3	82.4	79.4	84.8
C-3'	106.0	80.7	77.5	106.0	80.7	77.8	75.7
C-1"	108.5	78.2	75.1	108.9	77.8	75.0	74.1

C-7	148.7	38.0	36.6	147.7	39.1	38.0	35.8
C-4'	157.8	28.9	27.9	157.8	29.0	28.3	28.0
C-5'	157.8	28.9	27.9	157.8	28.9	28.2	27.8
C-9	160.5	26.2	25.3	161.3	25.4	24.9	25.8
Probability	sDP4+ = 99.63% uDP4+ = 96.89% DP4+ = 99.99%			sDP4+ = 0.37% uDP4+ = 3.11% DP4+ = 0.01%			

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Table S3 ^1H and ^{13}C NMR Data for **5** in acetone- d_6 (700, 175, TMS, δ in ppm, J in Hz).

No.	5	
	$\delta_{\text{C}}^{\text{a}}$	$\delta_{\text{H}}(J, \text{Hz})^{\text{b}}$
1	118.7	
2	155.7	
3	130.1	
4	126.8	6.88, s
5	149.4	
6	123.3	
7	198.5	10.38, s
1'	27.7	3.27, m (7.0)
2'	122.5	5.31, br t (7.0)
3'	133.6	
4'	25.9	1.73, s
5'	17.8	1.70, s
1''	48.4	2.83, overlap
2''	73.9	4.78, br s
3''	36.0	2.40, m 1.82, m
4''	24.8	1.89, m 1.28, m
5''	32.5	2.14, m
6''	77.6	4.09, dq (10.2, 6.2)
7''	20.7	1.35, d (6.2)
2-OH		12.15, s

^aRecorded at 175 MHz. ^bRecorded at 700 MHz.

Figure S7 The ^1H NMR (700 MHz) spectrum of euroticin F (**1**) in DMSO- d_6 .

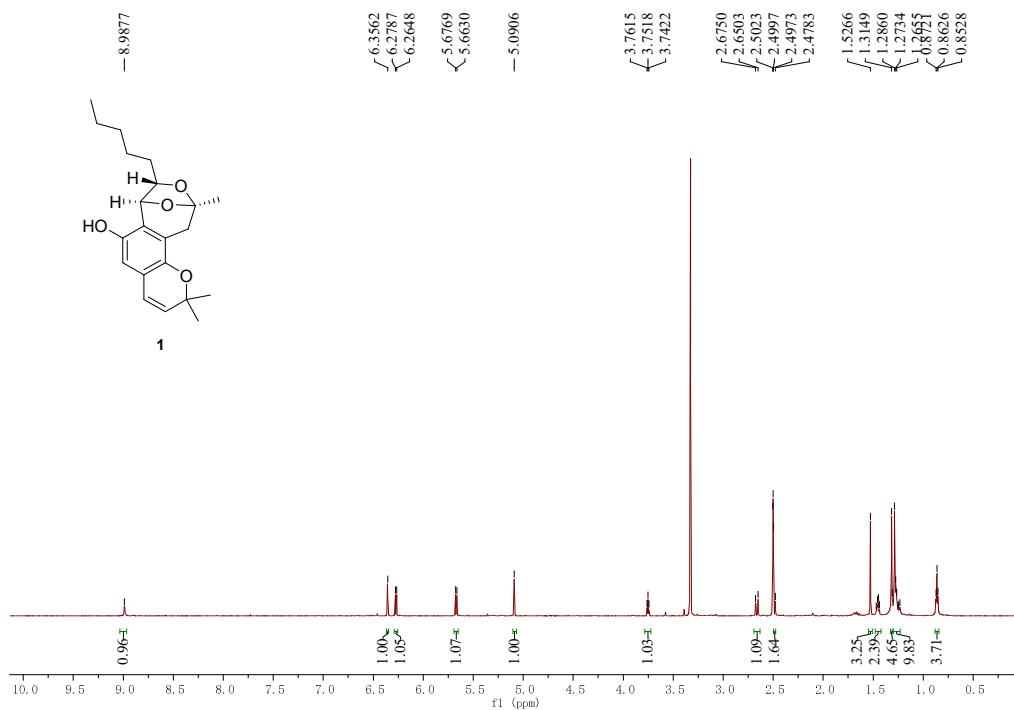


Figure S8 The ^{13}C NMR (175 MHz) spectrum of euroticin F (**1**) in DMSO- d_6 .

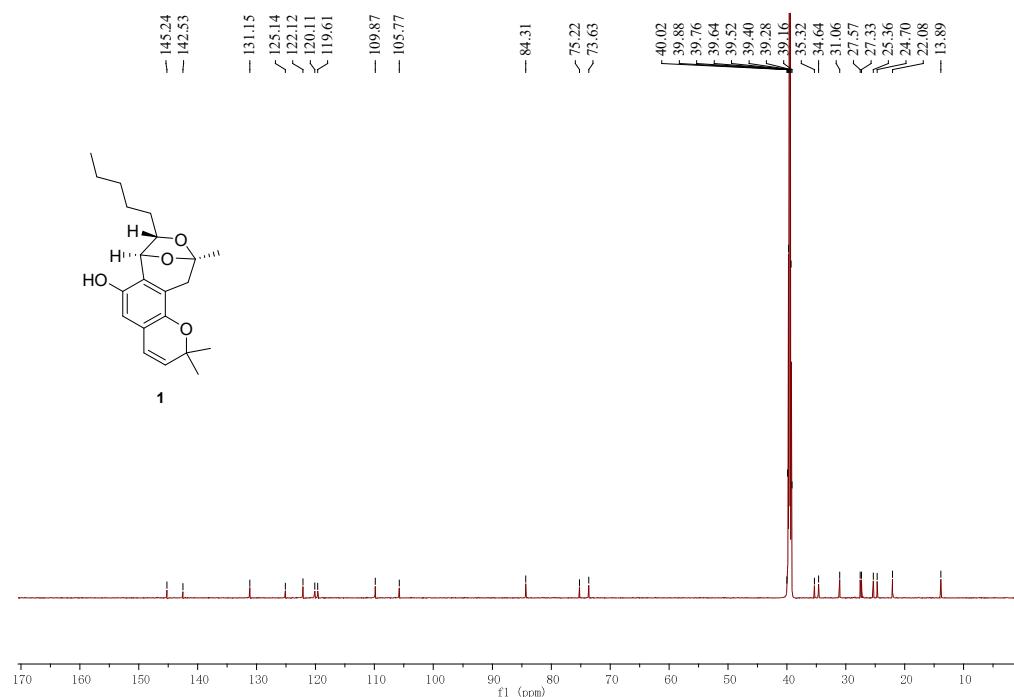


Figure S9 The HSQC (700 MHz) spectrum of euroticin F (**1**) in DMSO-*d*₆.

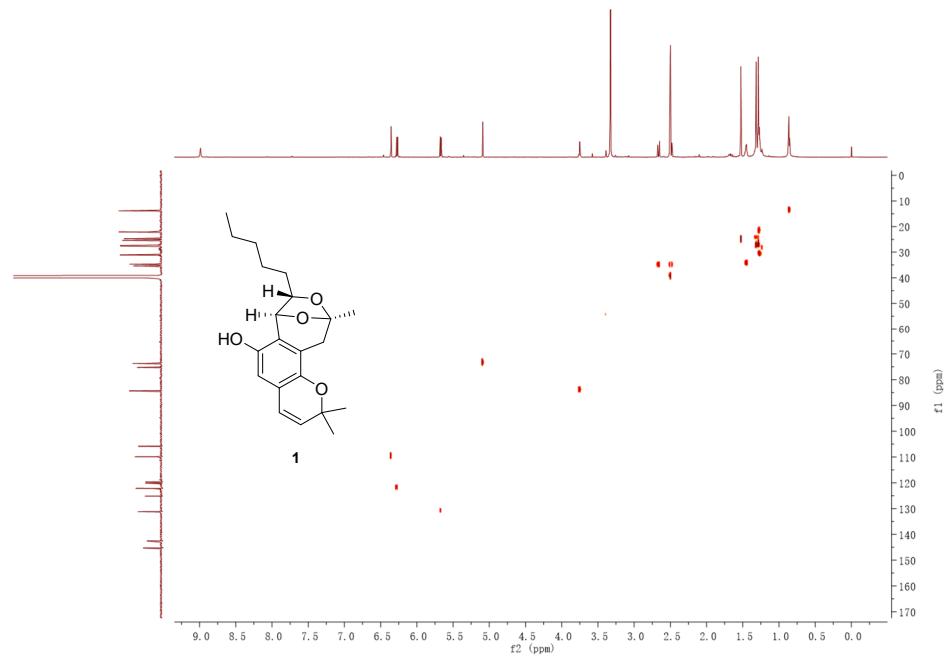


Figure S10 The HMBC (700 MHz) spectrum of euroticin F (**1**) in DMSO-*d*₆.

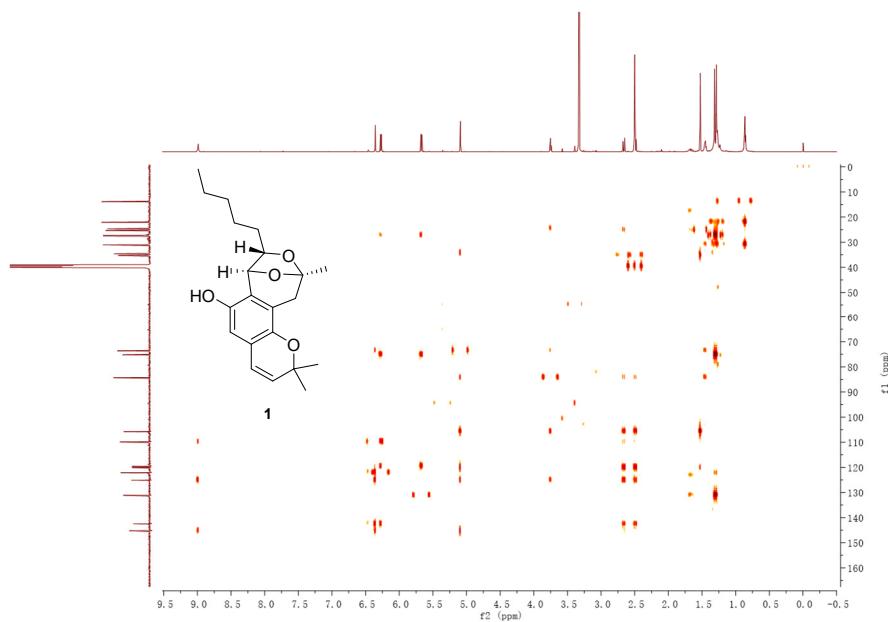


Figure S11 The ^1H - ^1H COSY (700 MHz) spectrum of euroticin F (**1**) in $\text{DMSO}-d_6$.

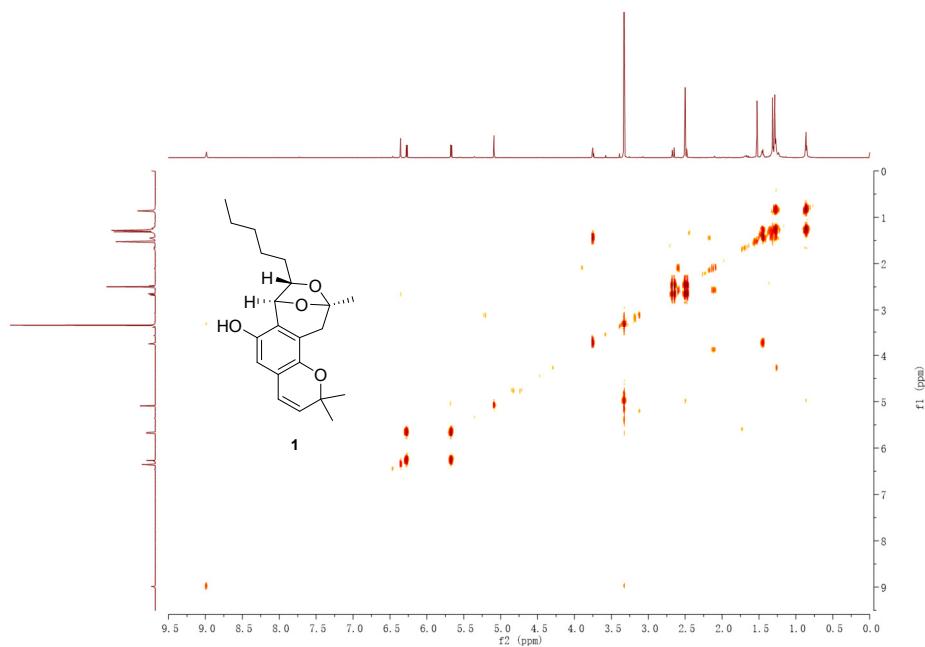


Figure S12 The ROESY (700 MHz) spectrum of euroticin F (**1**) in $\text{DMSO}-d_6$.

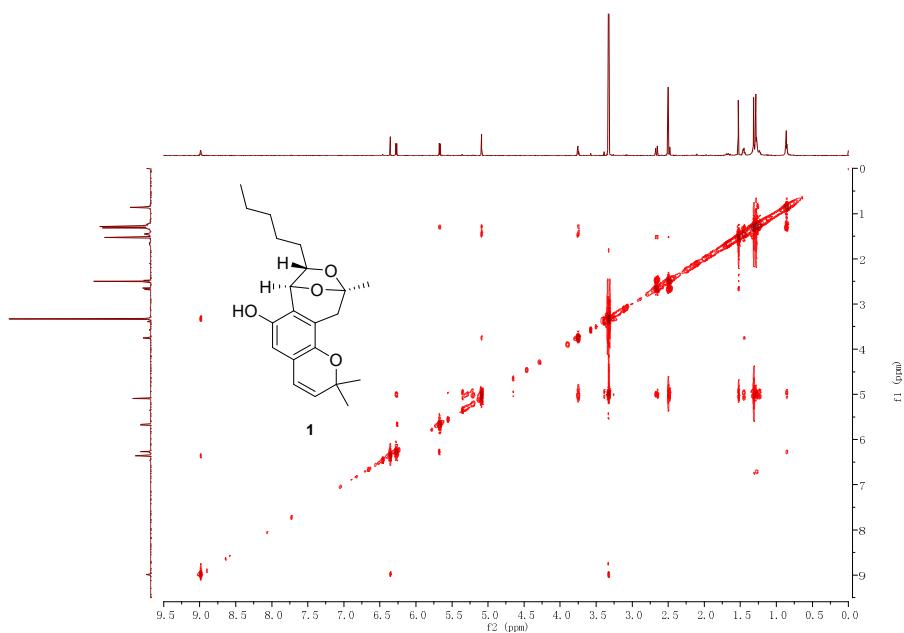


Figure S13 The HRESIMS spectrum of euroticin F (**1**).

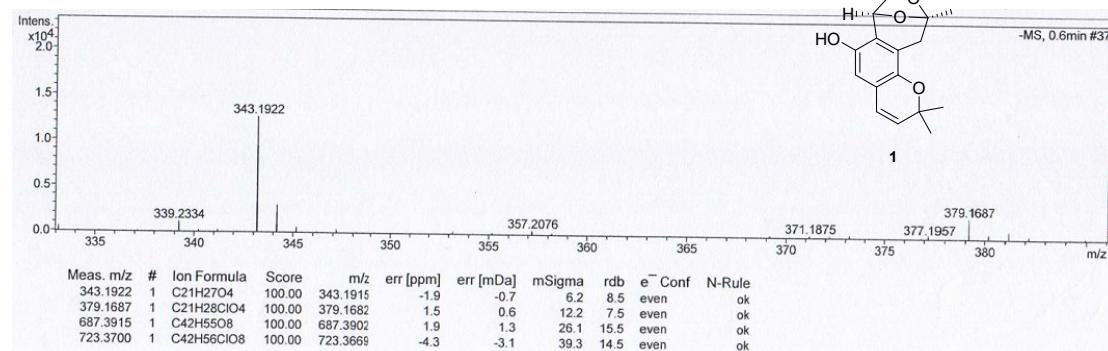


Figure S14 The ^1H NMR (700 MHz) spectrum of euroticin G (**2**) in acetone- d_6 .

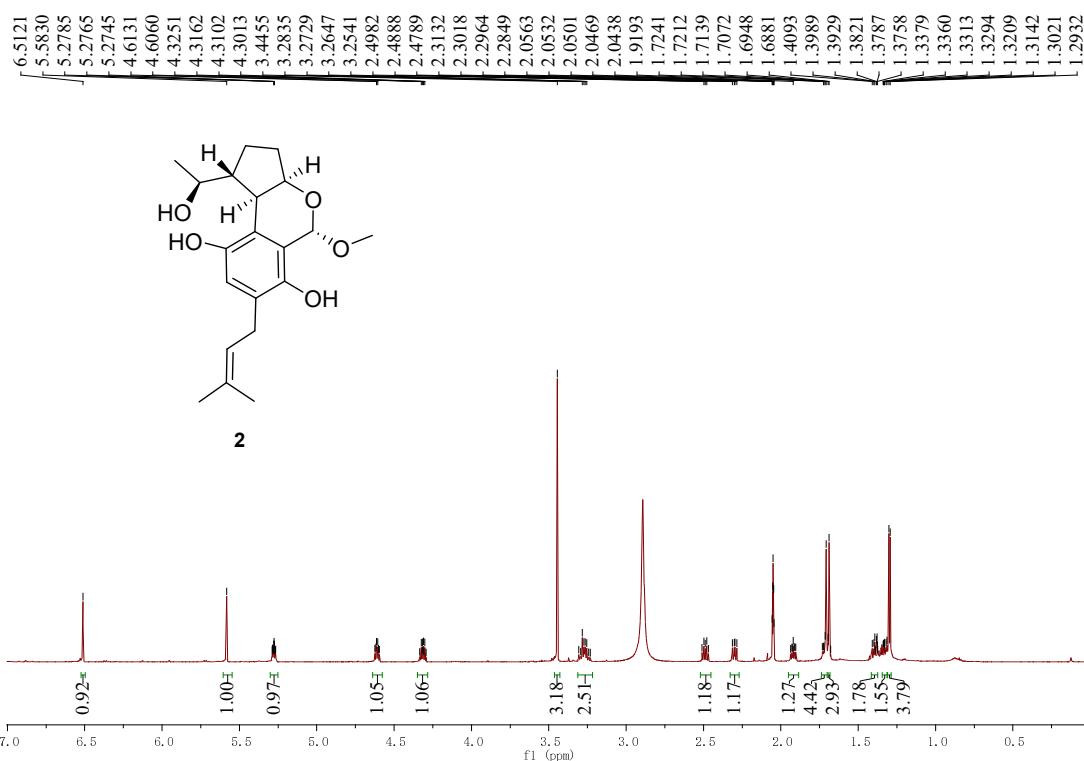


Figure S15 The ^{13}C NMR (175 MHz) spectrum of euroticin G (**2**) in acetone- d_6 .

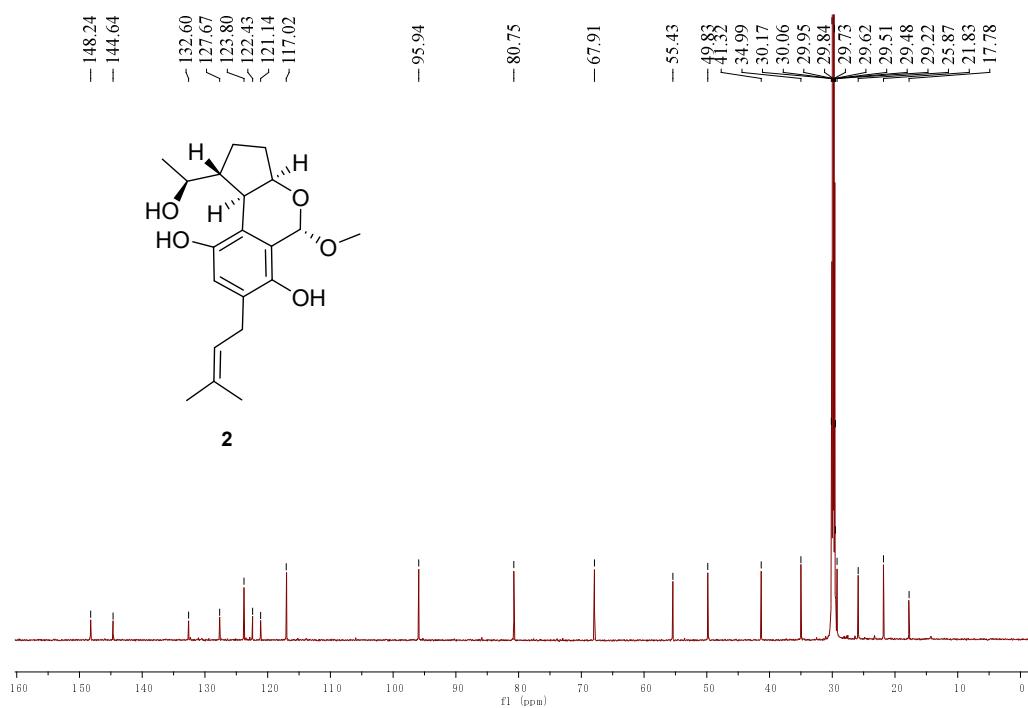


Figure S16 The HSQC (700 MHz) spectrum of euroticin G (**2**) in acetone-*d*₆.

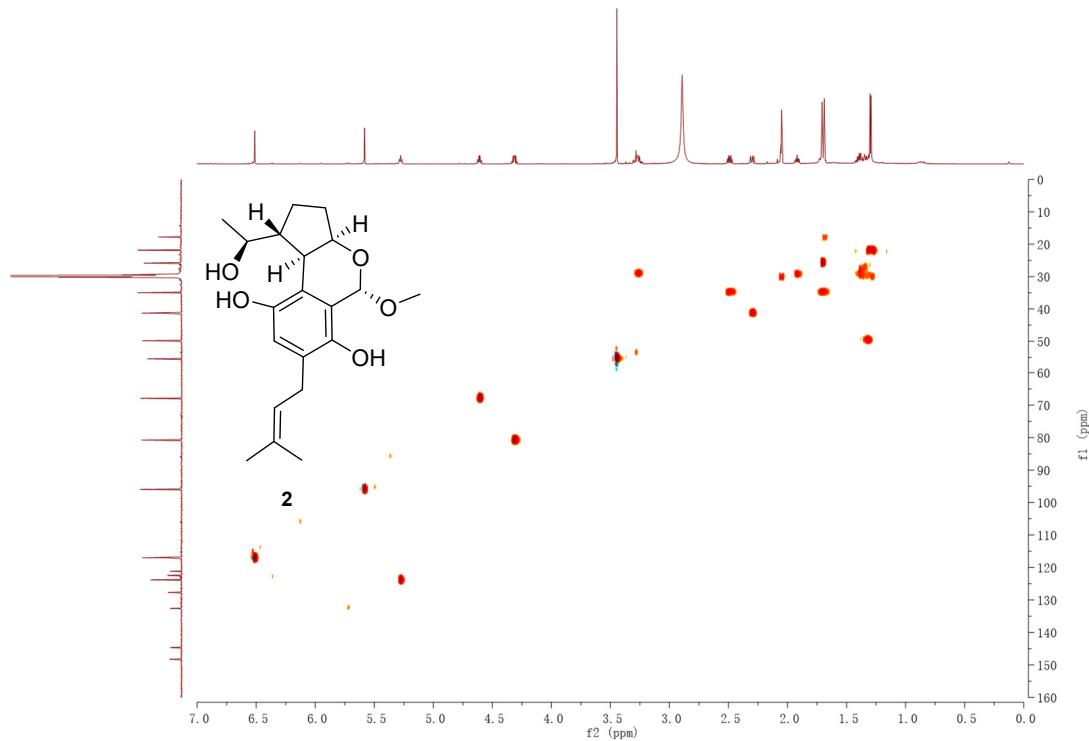


Figure S17 The HMBC (700 MHz) spectrum of euroticin G (**2**) in acetone-*d*₆.

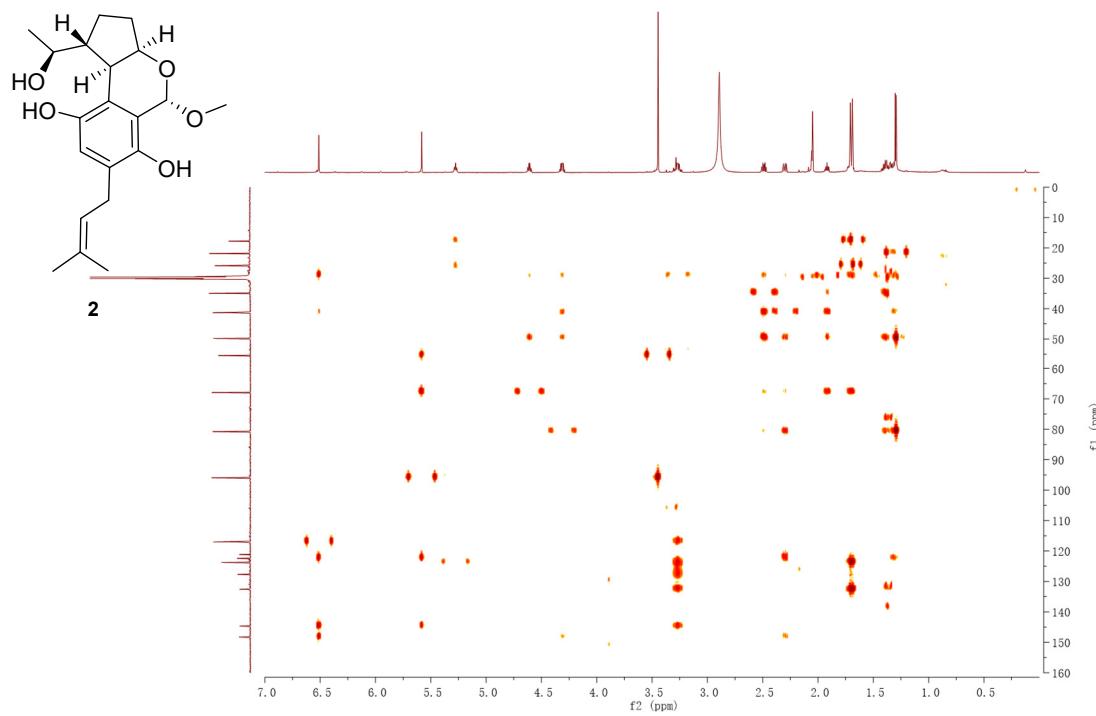


Figure S18 The ^1H - ^1H COSY (700 MHz) spectrum of euroticin G (**2**) in acetone- d_6 .

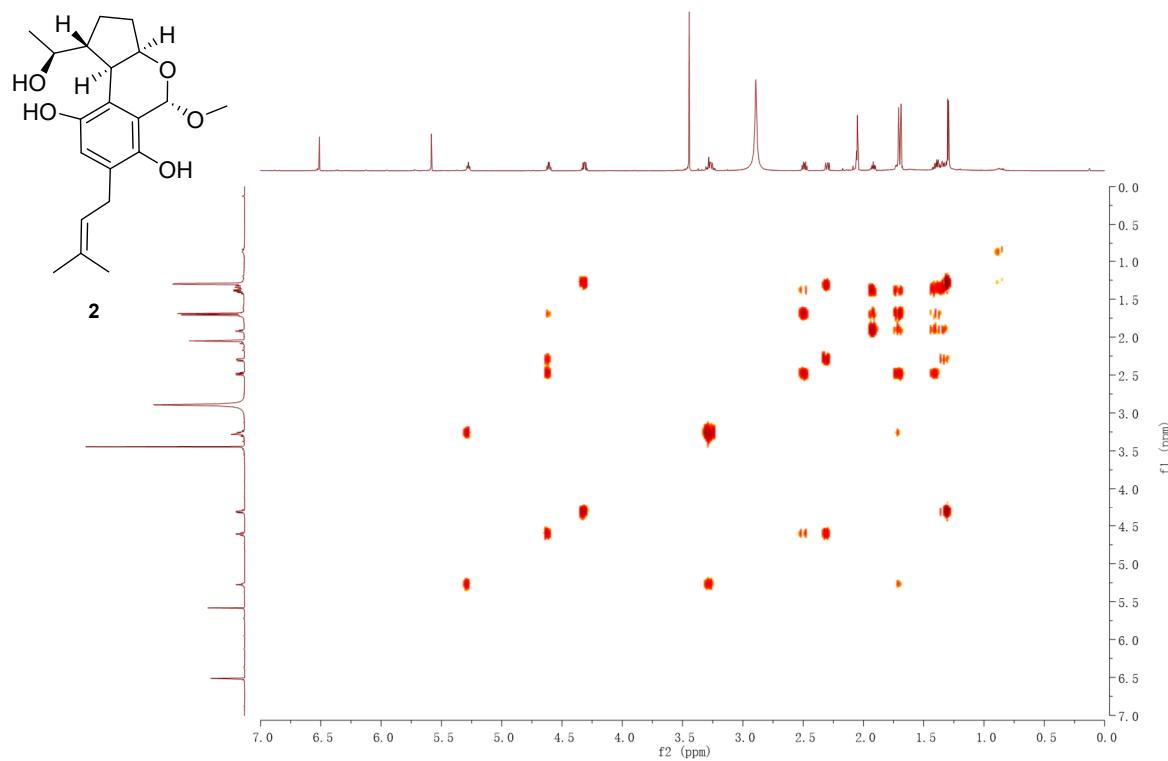


Figure S19 The ROESY (700 MHz) spectrum of euroticin D (**2**) in acetone- d_6 .

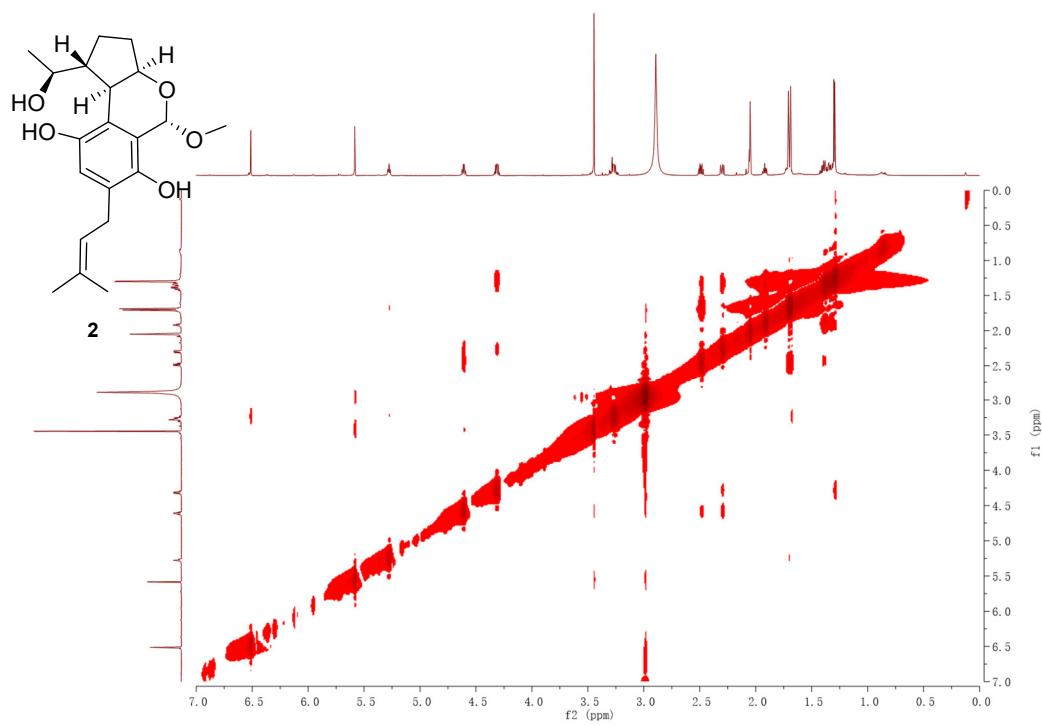


Figure S20 The HRESIMS spectrum of euroticin G (**2**).

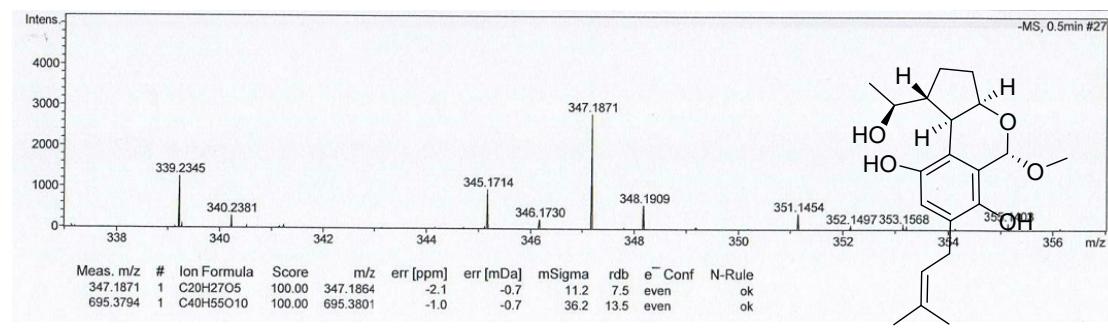


Figure S21 The UV spectrum of euroticin G (**2**).

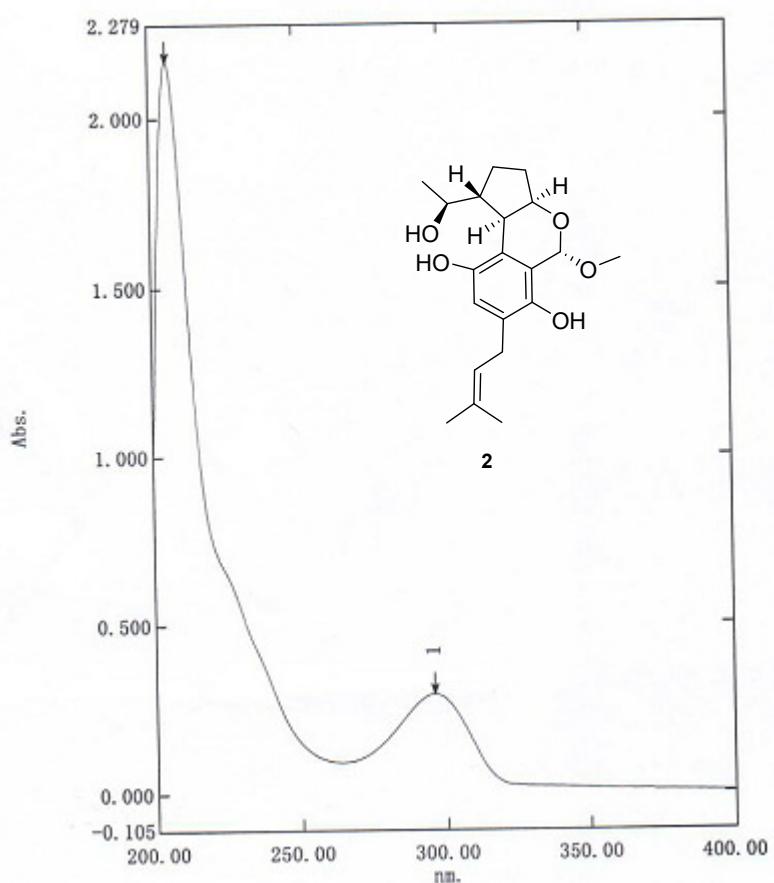


Figure S22 The ^1H NMR (500 MHz) spectrum of euroticin H (**3**) in acetone- d_6 .

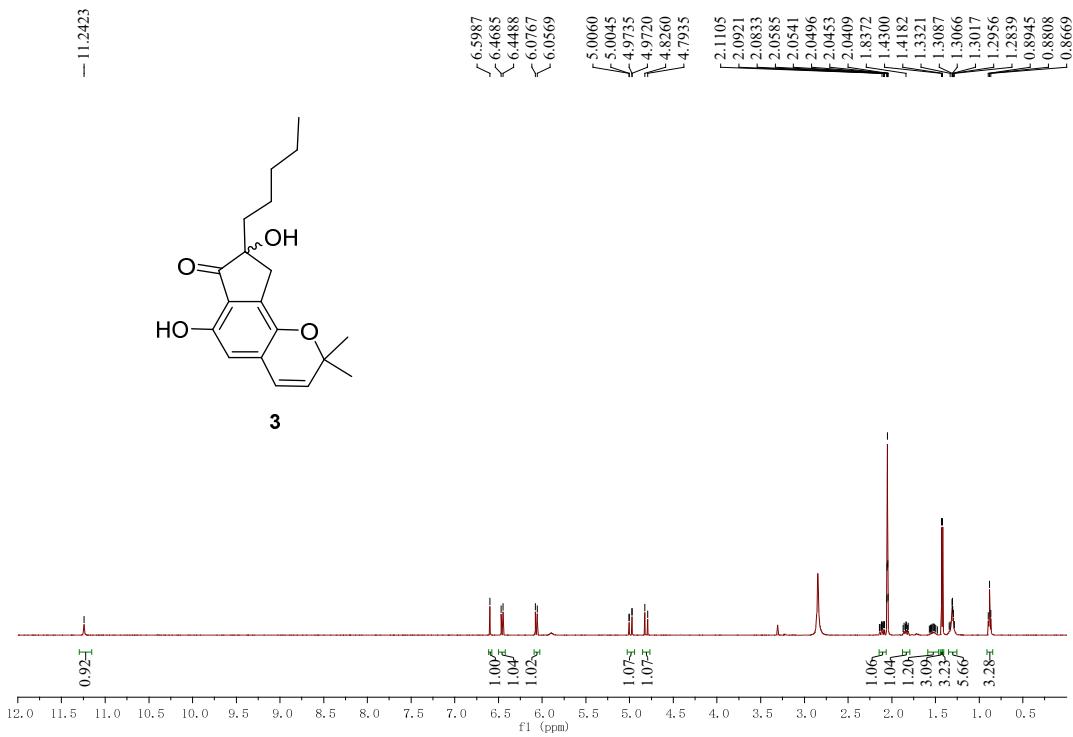


Figure S23 The ^{13}C NMR (125 MHz) spectrum of euroticin H (**3**) in acetone- d_6 .

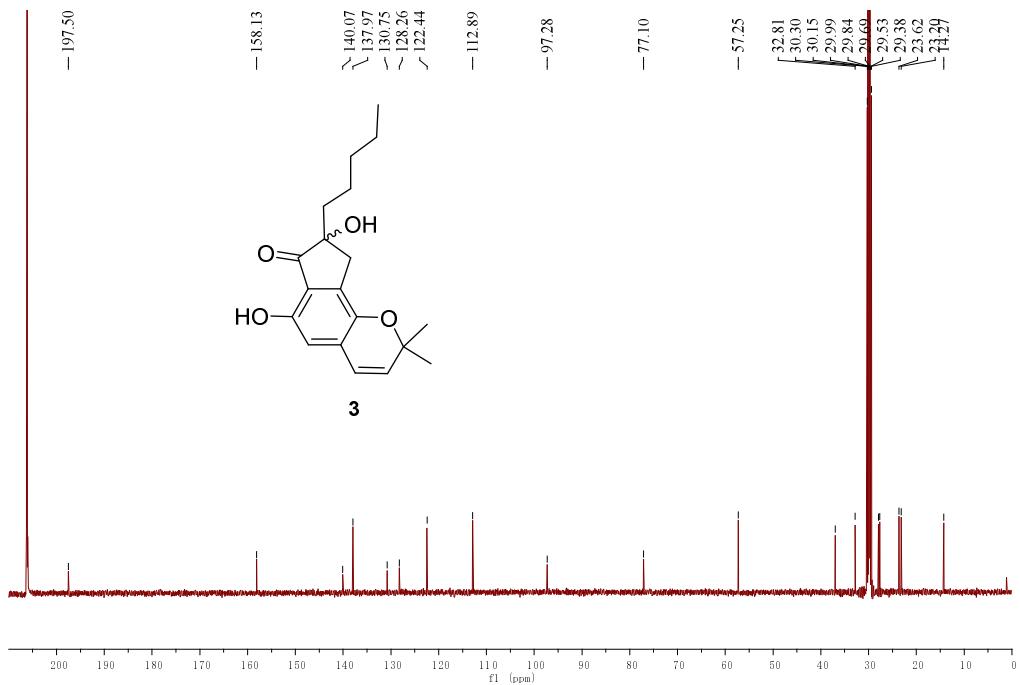


Figure S24 The HSQC (500 MHz) spectrum of euroticin H (**3**) in acetone-*d*₆.

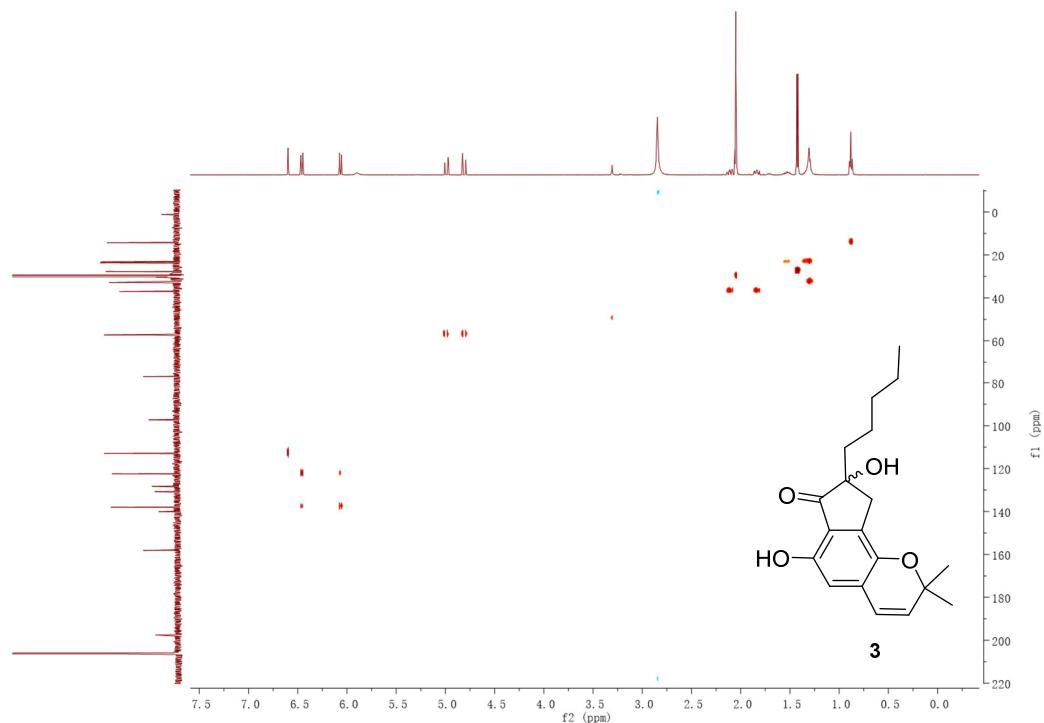


Figure S25 The HMBC (500 MHz) spectrum of euroticin H (**3**) in acetone-*d*₆.

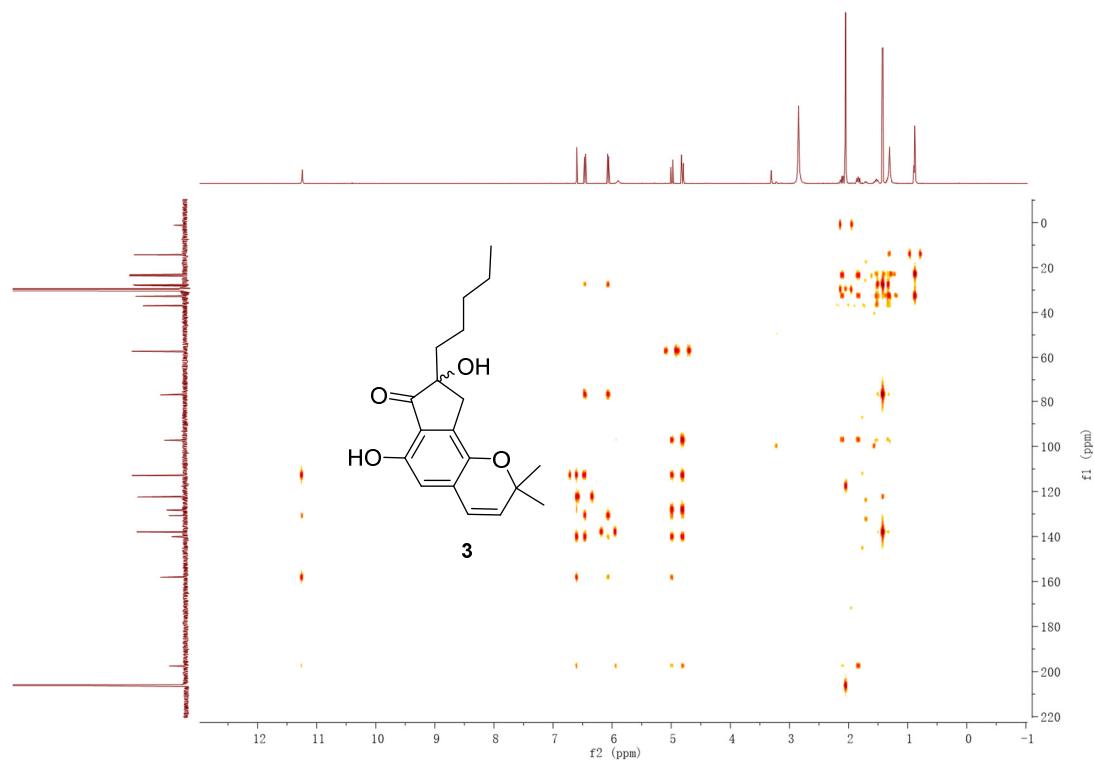


Figure S26 The ^1H - ^1H COSY (500 MHz) spectrum of euroticin H (**3**) in acetone- d_6 .

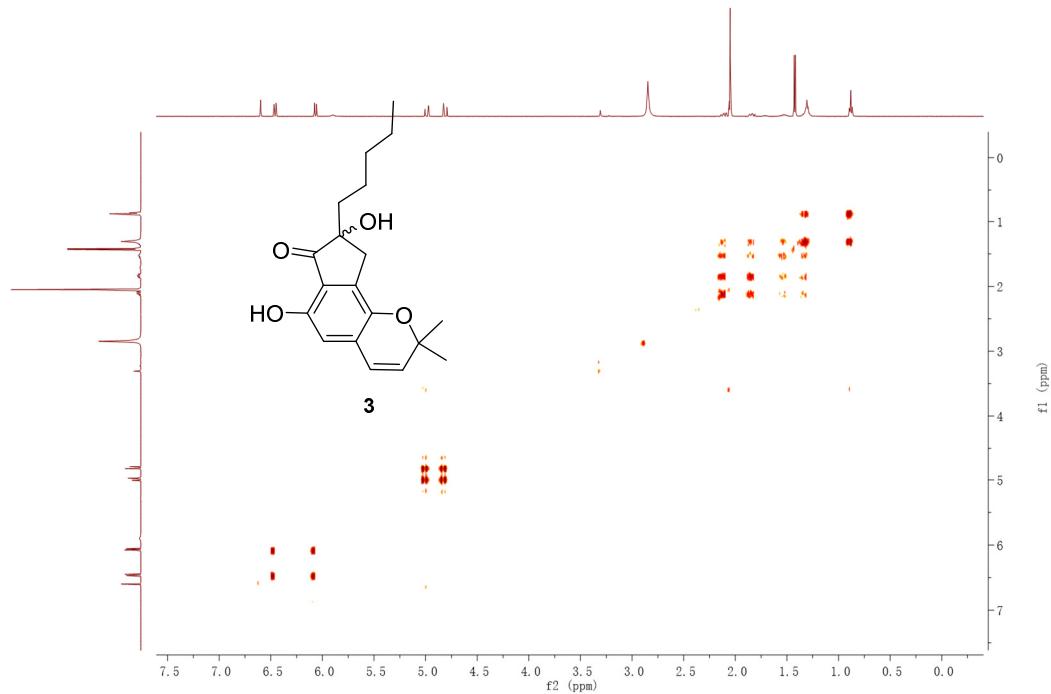


Figure S27 The HRESIMS spectrum of euroticin H (**3**).

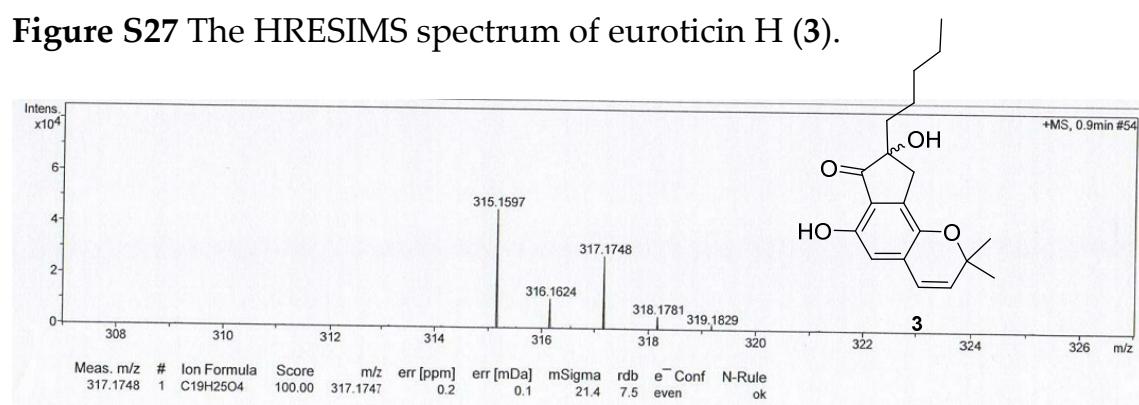


Figure S28 The HRESIMS spectrum of euroticin H (**3**).

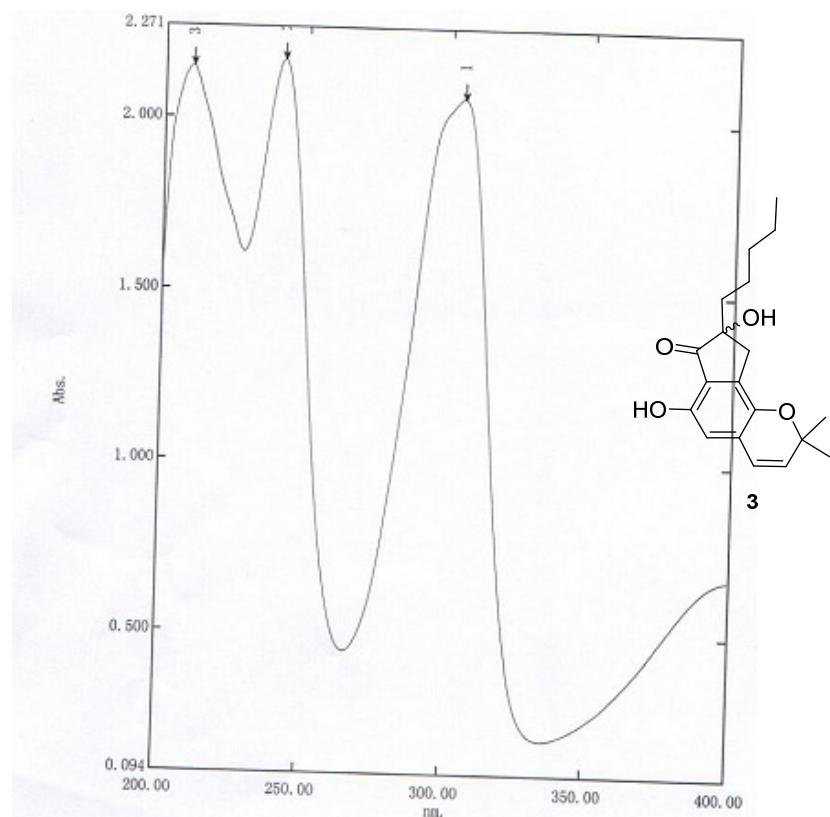


Figure S29 The ^1H NMR (700 MHz) spectrum of euroticin I (**4**) in $\text{DMSO}-d_6$.

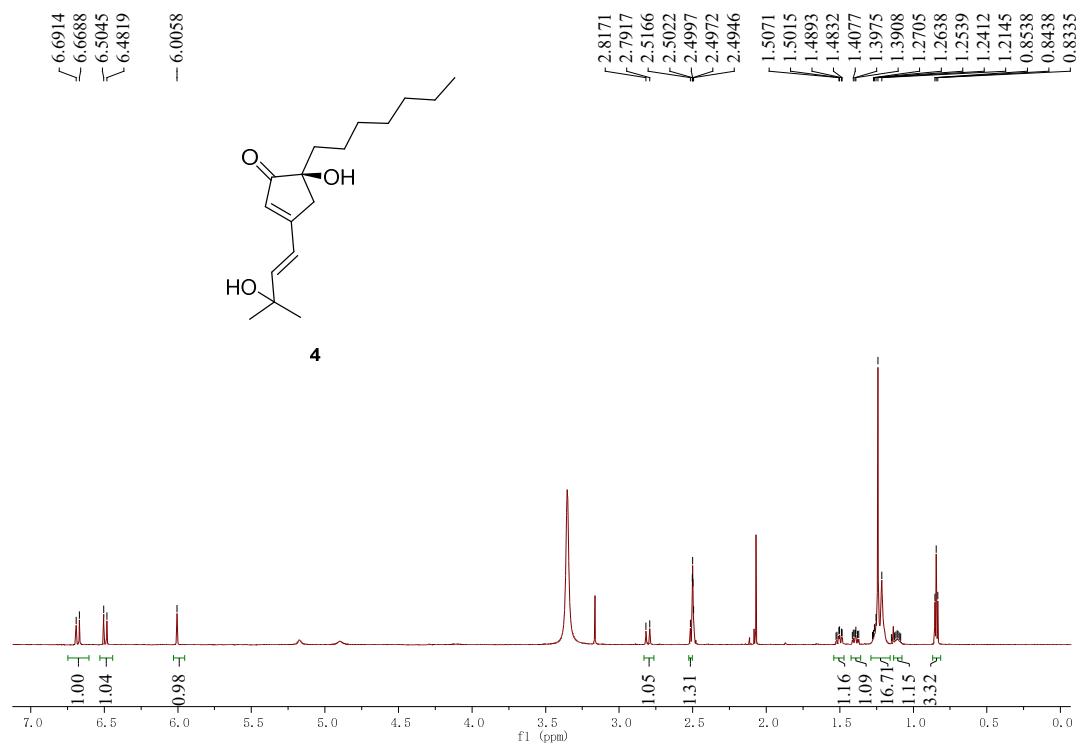


Figure S30 The ^{13}C NMR (175 MHz) spectrum of euroticin I (**4**) in $\text{DMSO}-d_6$.

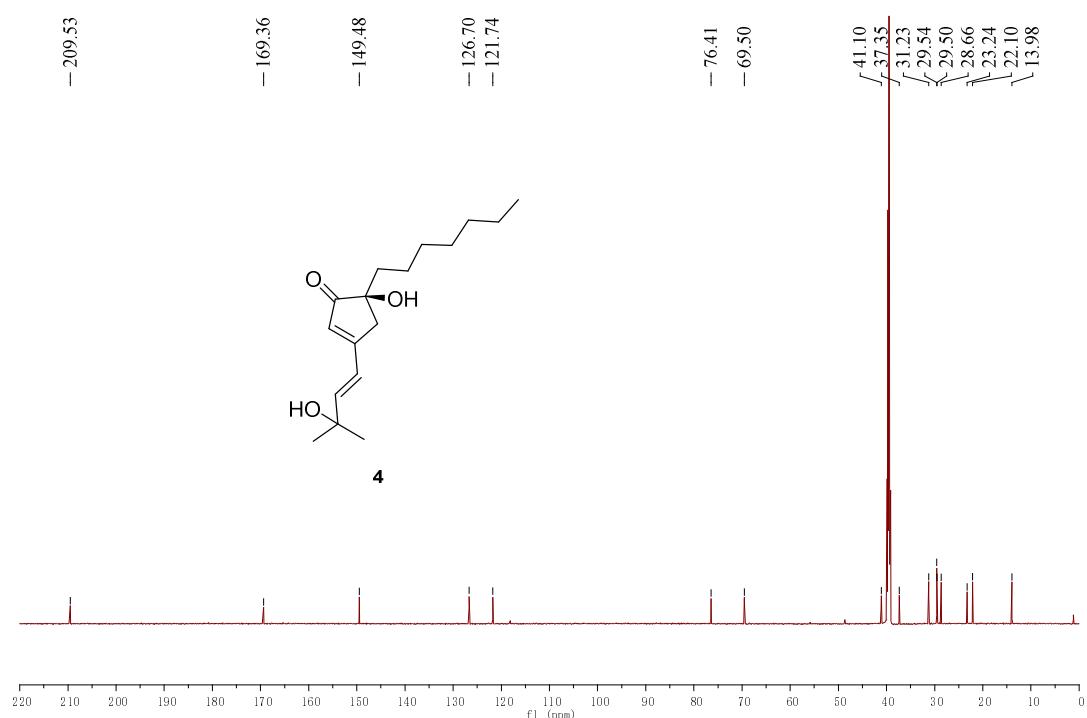


Figure S31 The HSQC (700 MHz) spectrum of euroticin I (**4**) in $\text{DMSO}-d_6$.

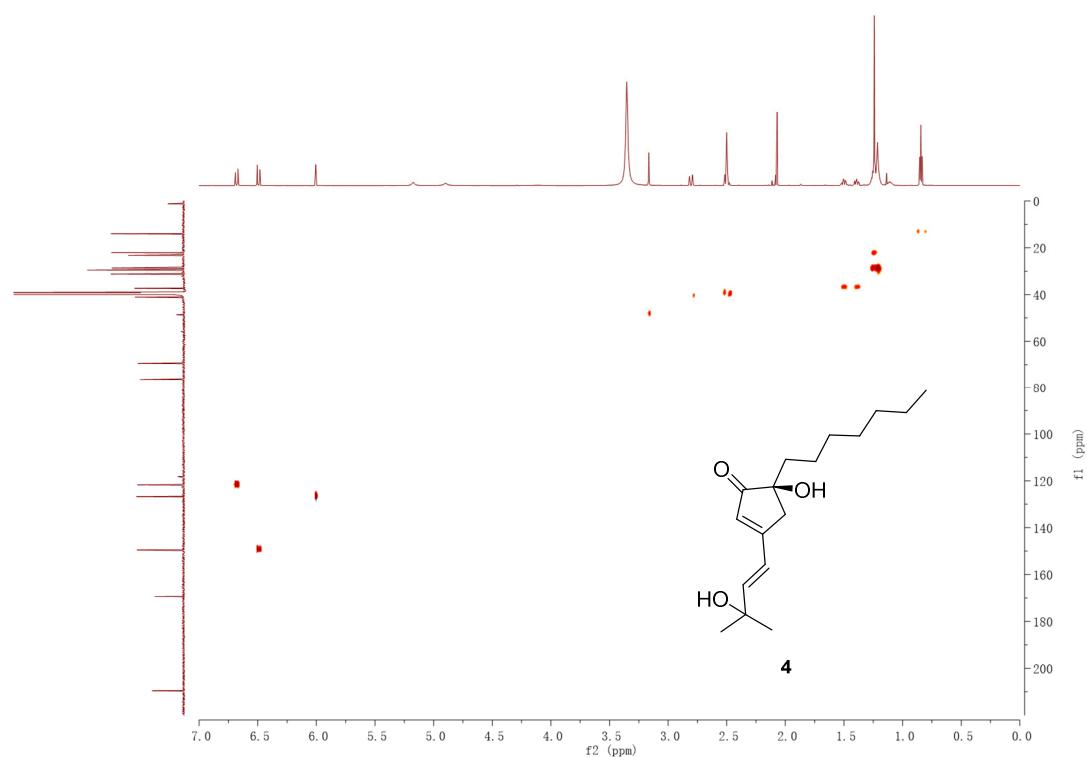


Figure S32 The HMBC (700 MHz) spectrum of euroticin I (**4**) in DMSO-*d*₆.

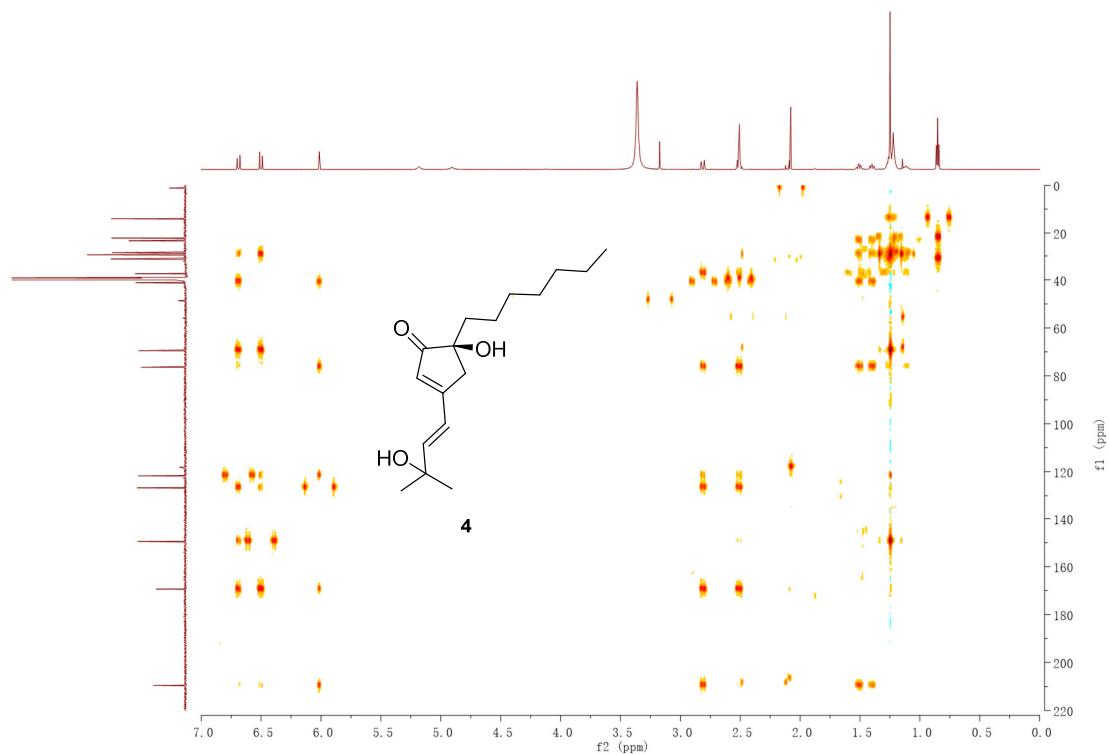


Figure S33 The ¹H-¹H COSY (700 MHz) spectrum of euroticin I (**4**) in DMSO-*d*₆.

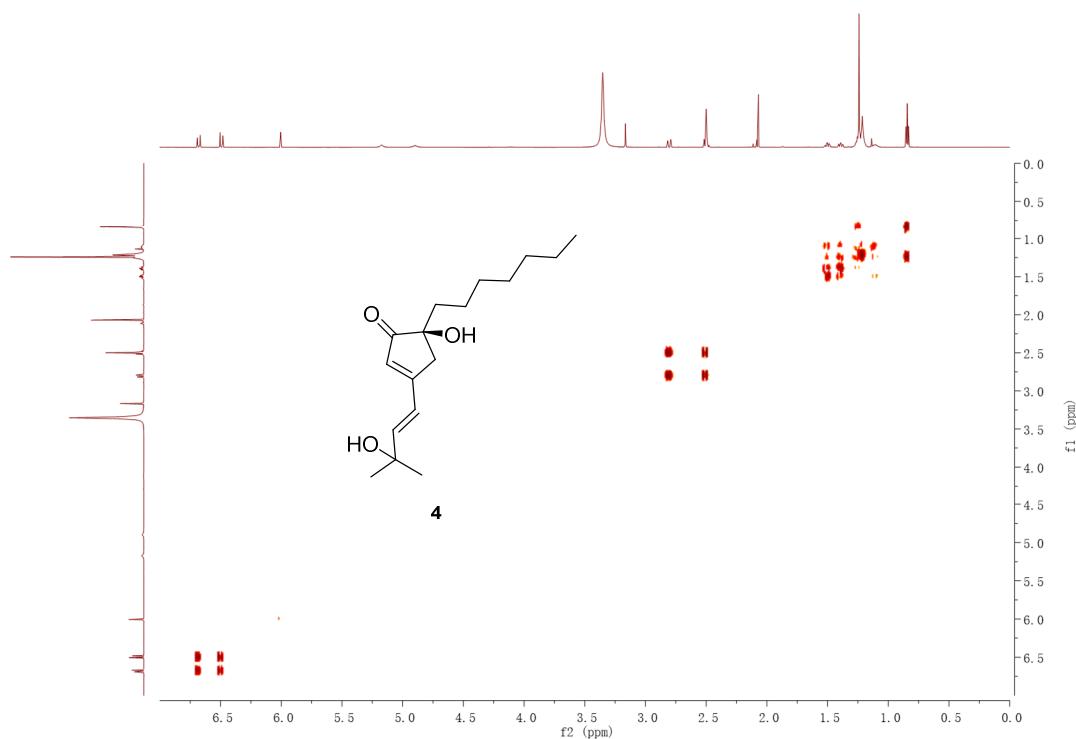


Figure S34 The HRESIMS spectrum of euroticin I (**4**).

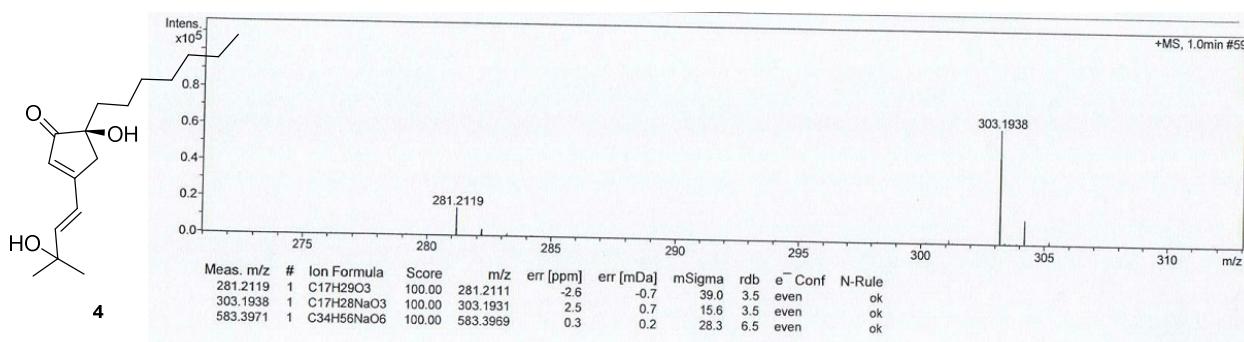


Figure S35 The UV spectrum of euroticin I (**4**).

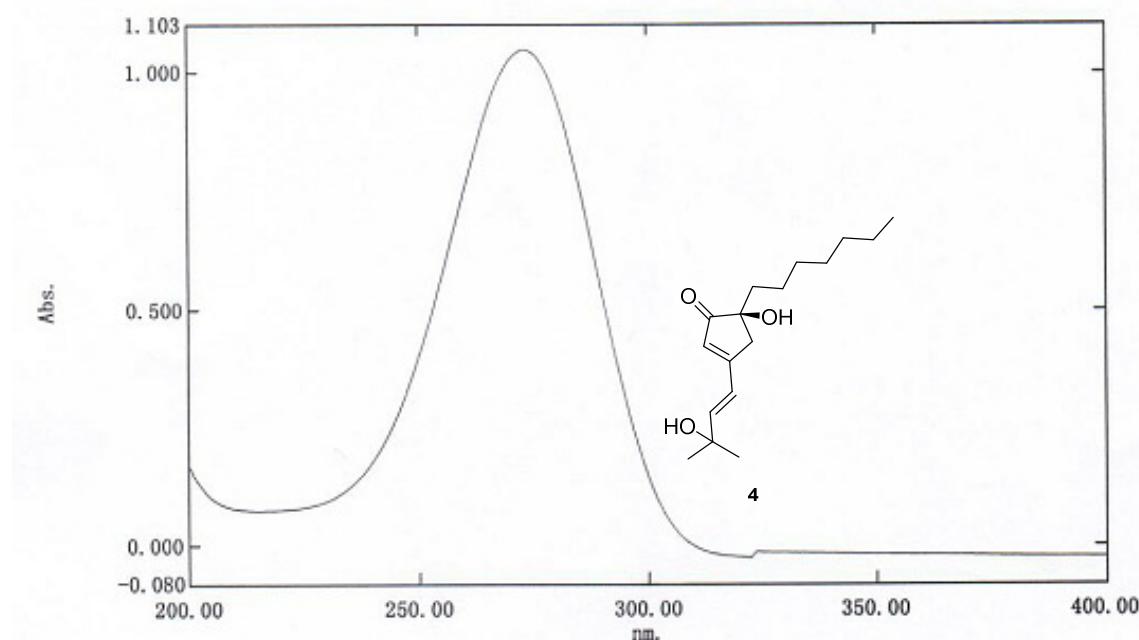


Figure S36 The ^1H NMR (700 MHz) spectrum of eurotirumin (**5**) in acetone- d_6 .

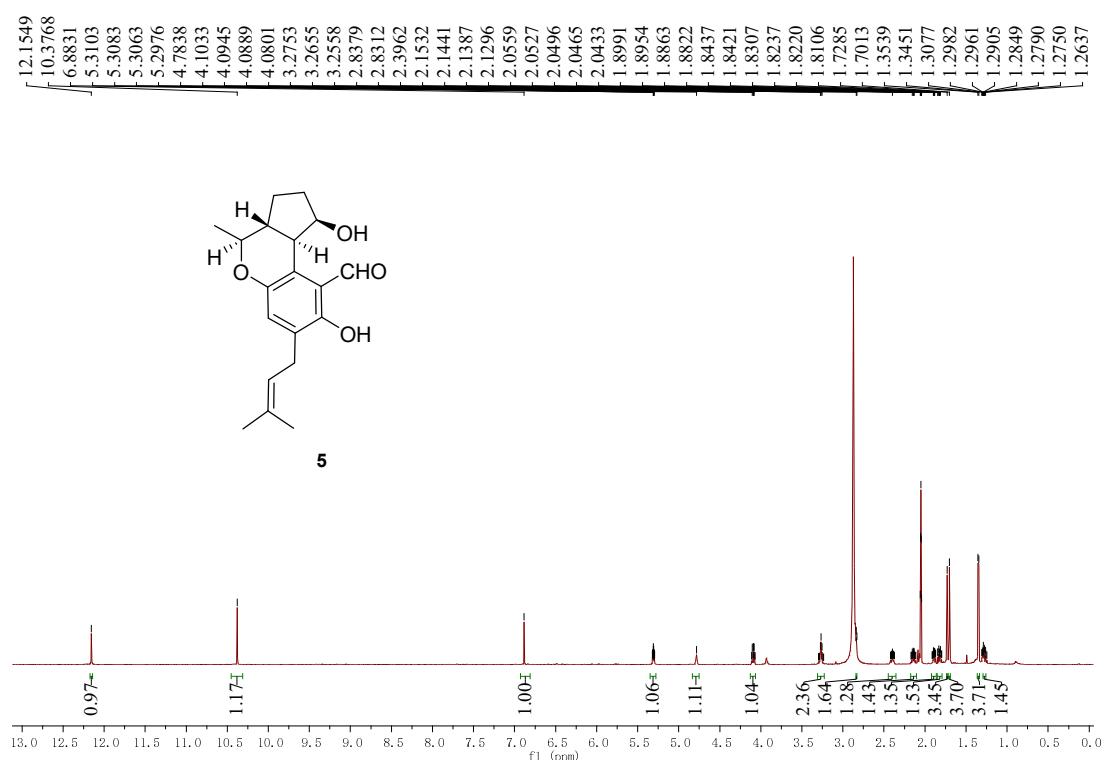


Figure S37 The ^{13}C NMR (175 MHz) spectrum of eurotirumin (**5**) in acetone- d_6 .

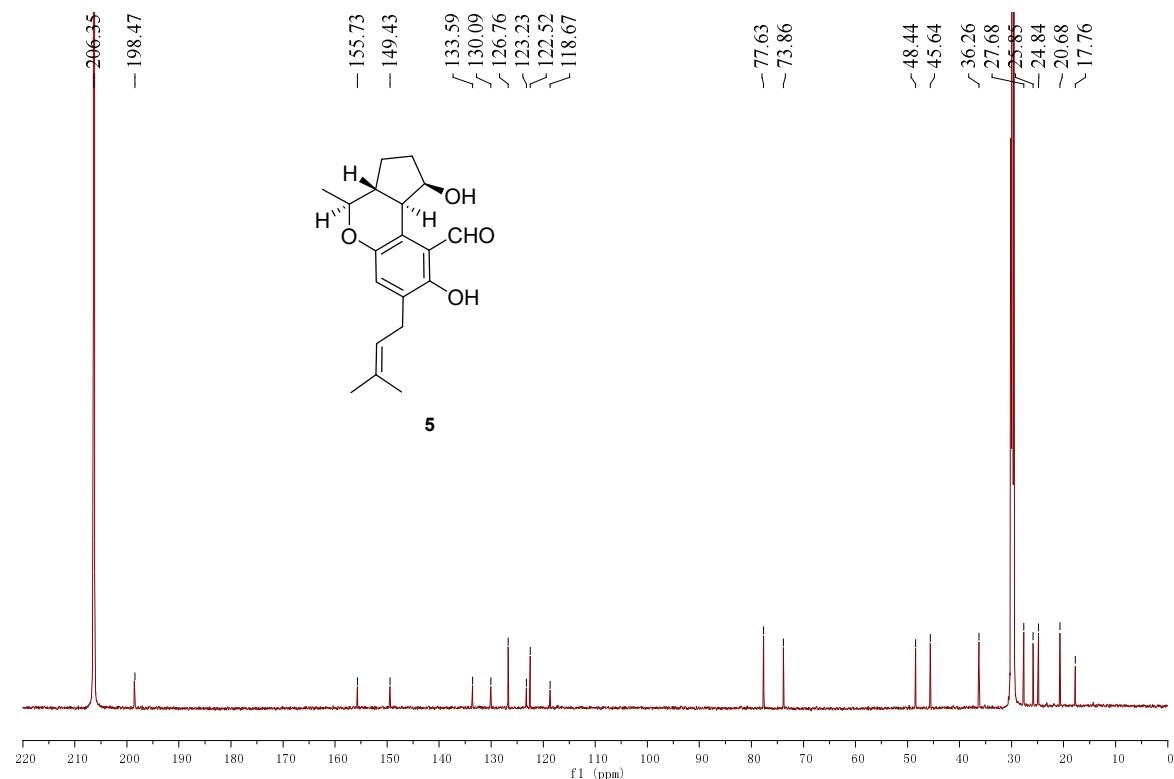


Figure S38 The HSQC (700 MHz) spectrum of eurotirumin (**5**) in acetone-*d*₆.

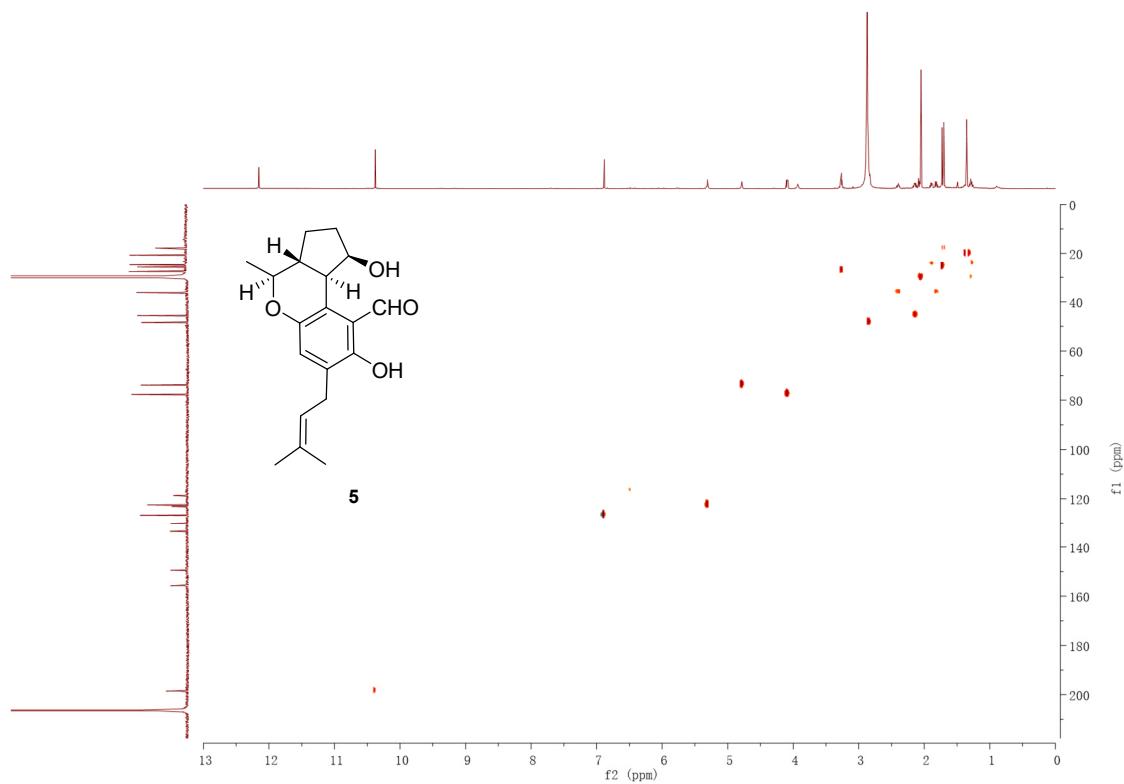


Figure S39 The HMBC (700 MHz) spectrum of eurotirumin (**5**) in acetone-*d*₆.

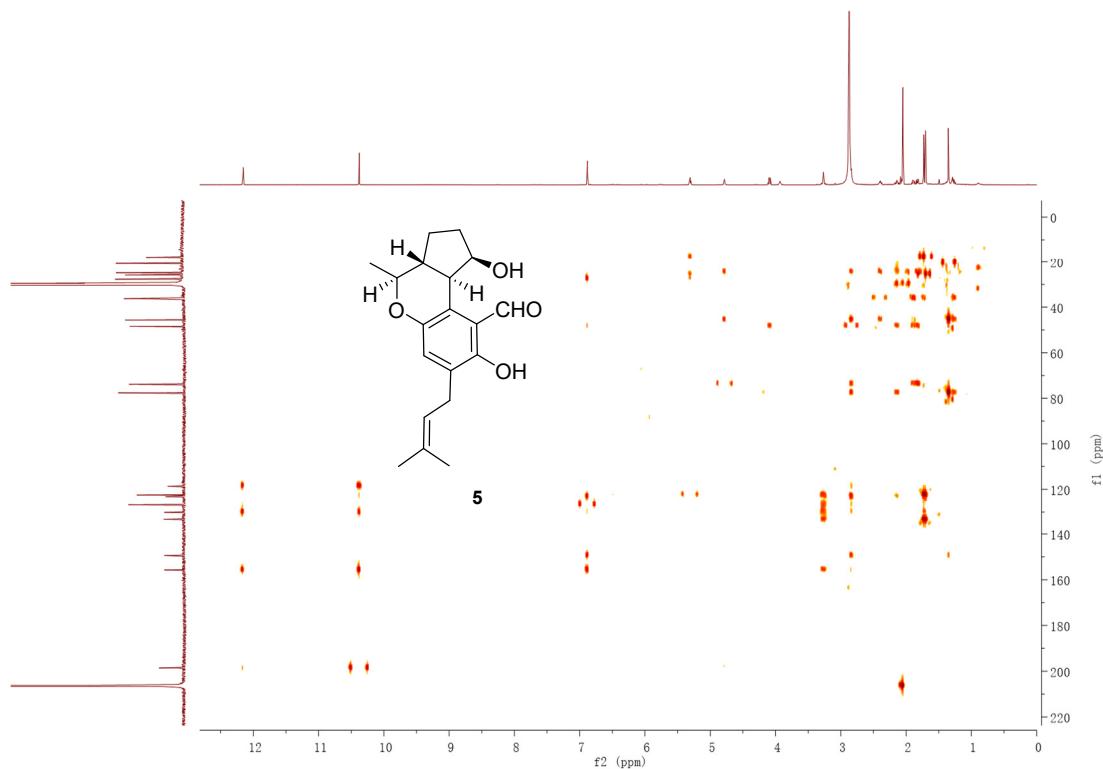


Figure S40 The ^1H - ^1H COSY (700 MHz) spectrum of eurotirumin (**5**) in acetone- d_6 .

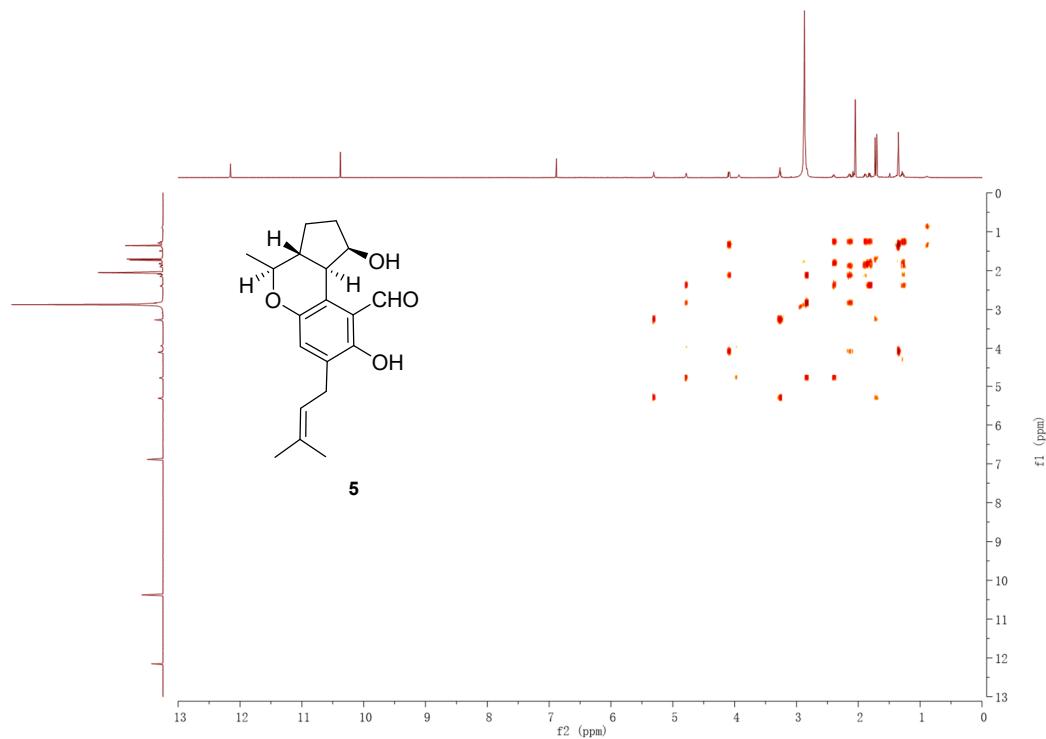


Figure S41 The ROESY (700 MHz) spectrum of eurotirumin (**5**) in acetone- d_6 .

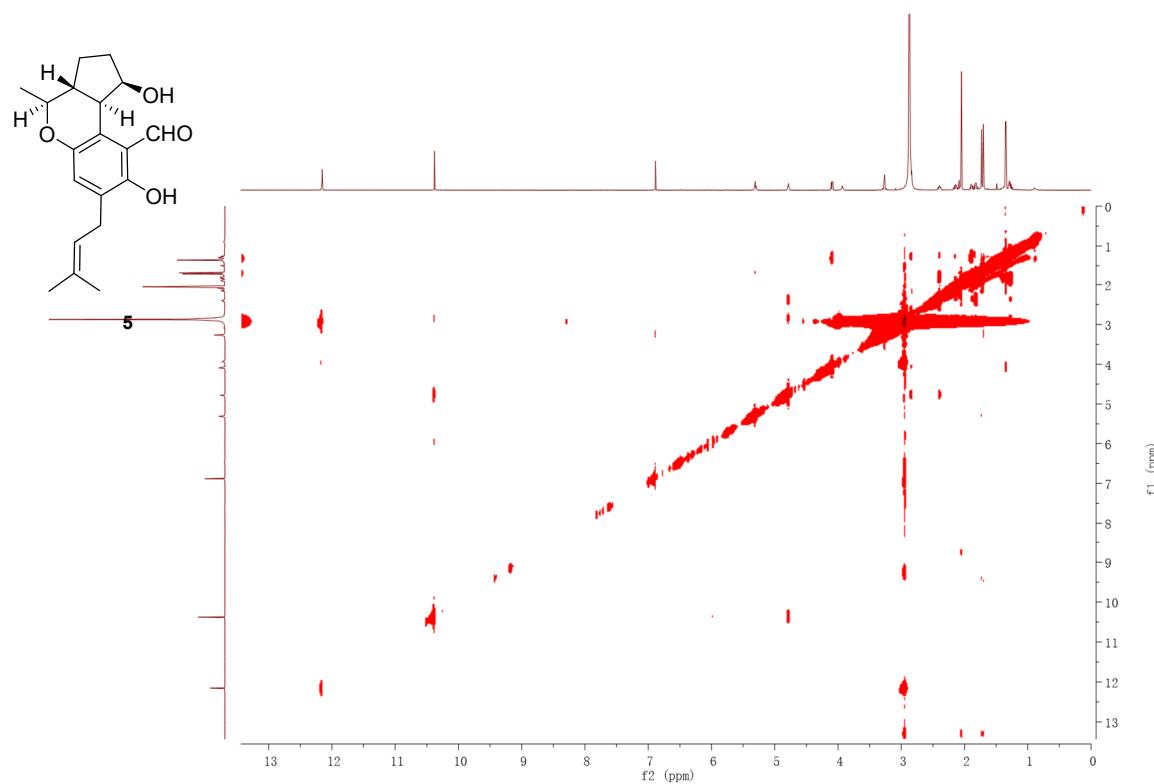


Figure S42 The HRESIMS spectrum of eurotirumin (**5**).

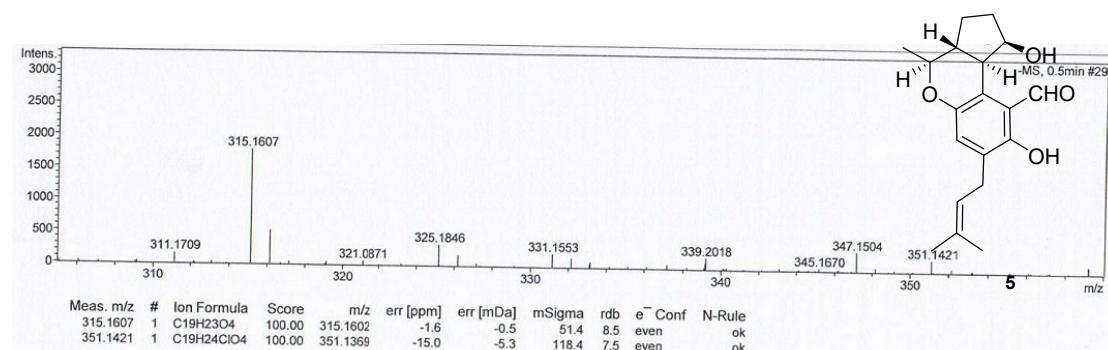


Figure S43 The UV spectrum of eurotirumin (**5**).

