

# Divergolides T–W with Apoptosis-Inducing Activity from the Mangrove-Derived Actinomycete *Streptomyces* sp. KFD18

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TTACCTGCAAGTCGAACGATGAACCACTTCGGTGGGGATTAGTGGCGAACGGGTGAGTAACACGTGG  
GCAATCTGCCCTGCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATATTGACCTTCACGG  
GCATCTGTGAGGTTTCGAAAGCTCCGGCGGTGCAGGATGAGCCCGCGGCCTATCAGCTTGTGGTGAGG  
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ACACGGCCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGCACAATGGGCGAAAGCCTGATGCA  
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GACGGTACCTGCAGAAGAAGCGCCGGCTAACTACGTGCCAGCAGCCGCGTAATACGTAGGGCGCAA  
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TGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAAC  
GGTGGGCACTAGGTGTGGGCAACATTCCACGTTGTCCGTGCCGACGCTAACGCATTAAGTGCCCCGCC  
TGGGGAGTACGGCCGAAGGCTAAAACCTCAAAGGAATTGACGGGGCCCCGCACAAGCGGCGGAGCA  
TGTGGCTTAATTCGACGCAACGCGAAGAACCTTACCAAGGCTTGACATACACCGGAAACGGCCAGAG  
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AGTAATCGCAGATCAGCATTGCTGCGGTGAATACGTTCCCGGGCCTGTACACACCGCCCGTCACGTC  
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Figure S1. The 16S rRNA sequence of *streptomyces* sp. KFD18

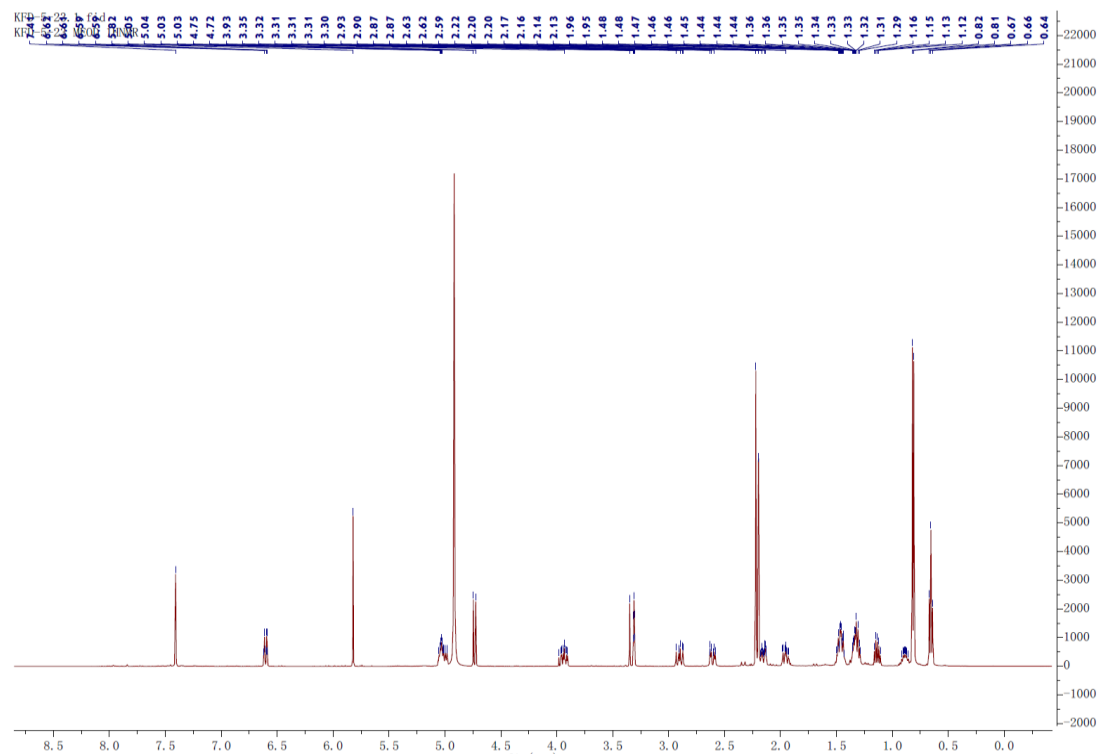


Figure S2-1. The  $^1\text{H}$  NMR spectrum of **1**

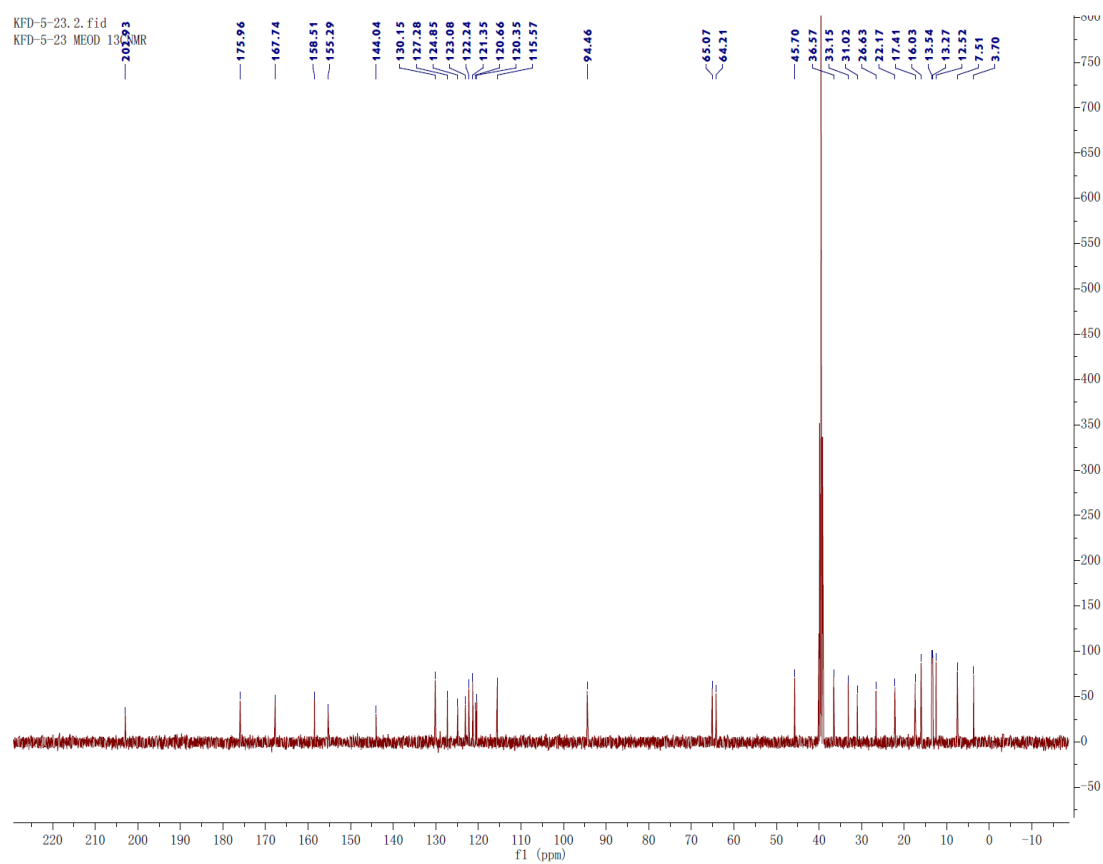


Figure S2-2. The  $^{13}\text{C}$  NMR spectrum of **1**

KFD-5-23.3.fid  
KFD-5-23 MEOD DEPT135 2 2

KFD-5-23.2.fid  
KFD-5-23 MEOD 13CNMR 1 1

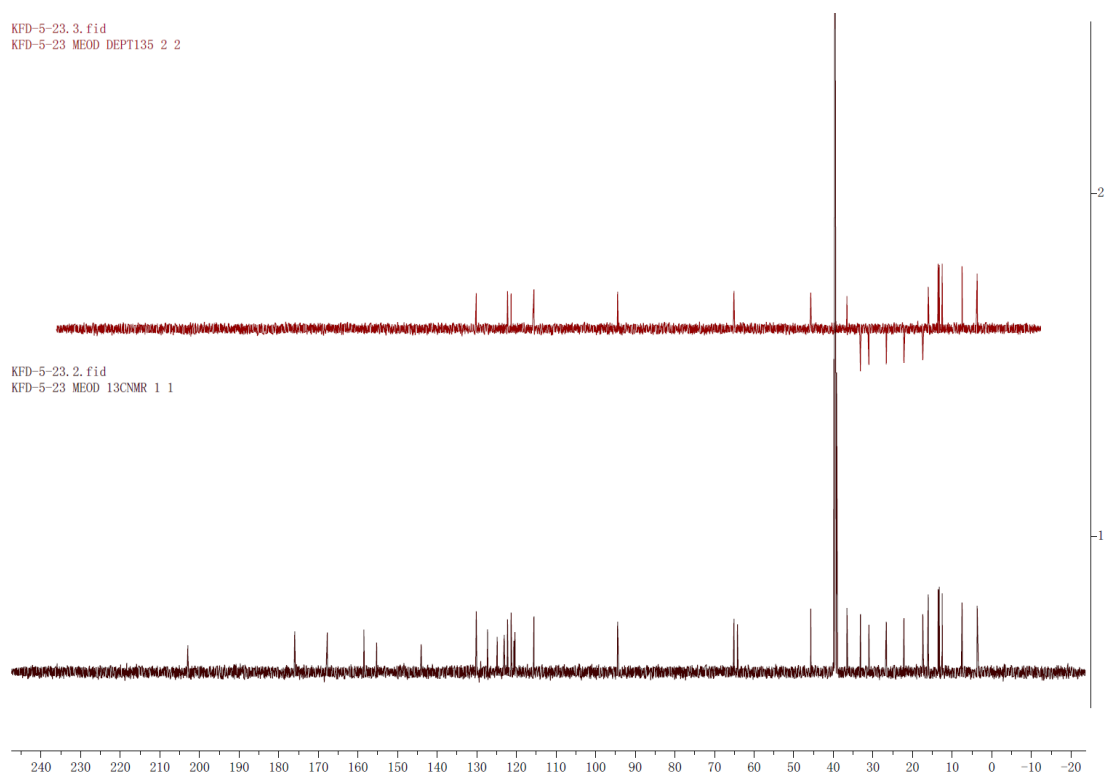


Figure S2-3. The DEPT spectrum of **1**

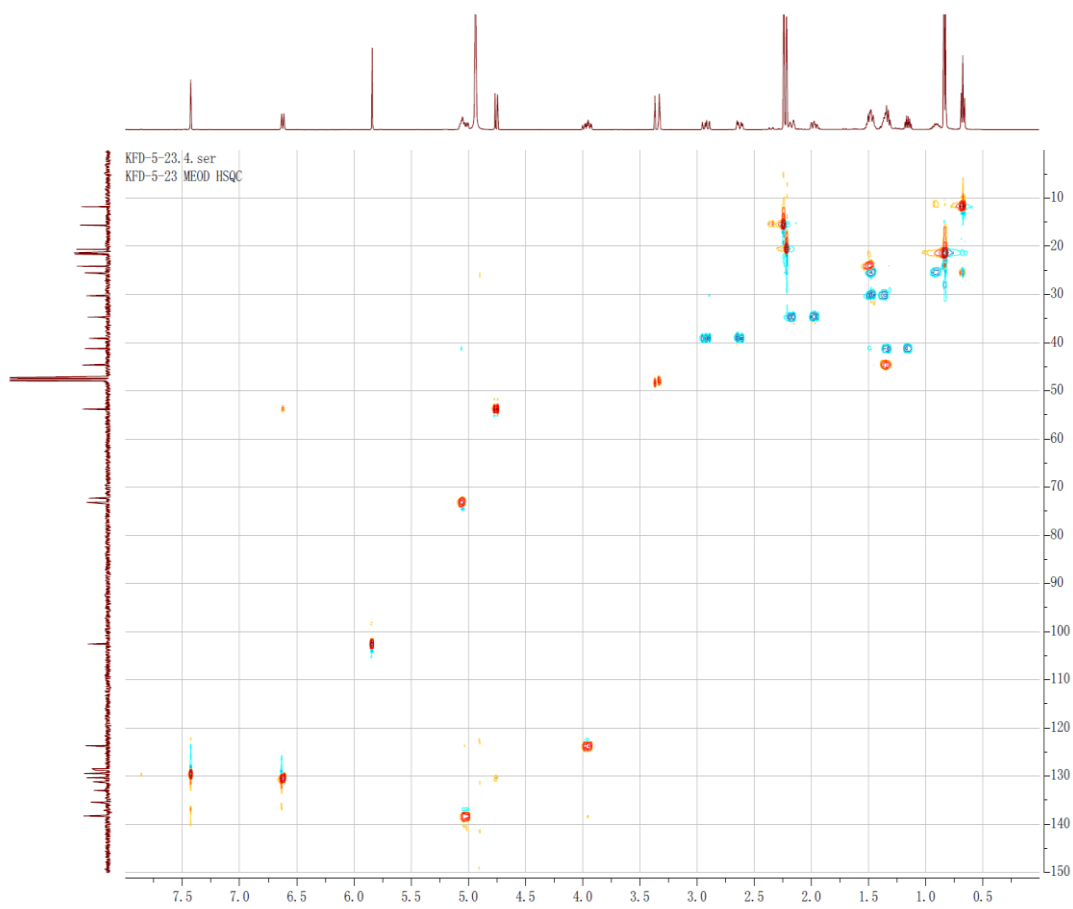


Figure S2-4. The HSQC spectrum of **1**

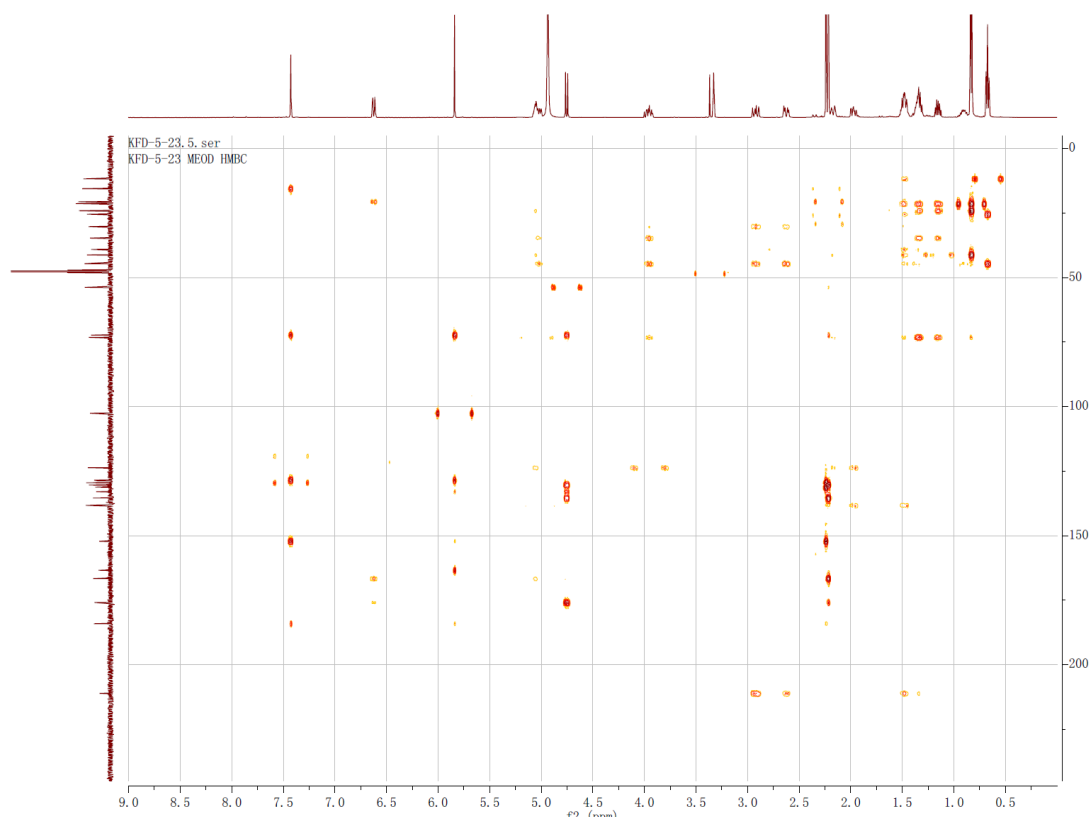


Figure S3-5. The HMBC spectrum of **2**

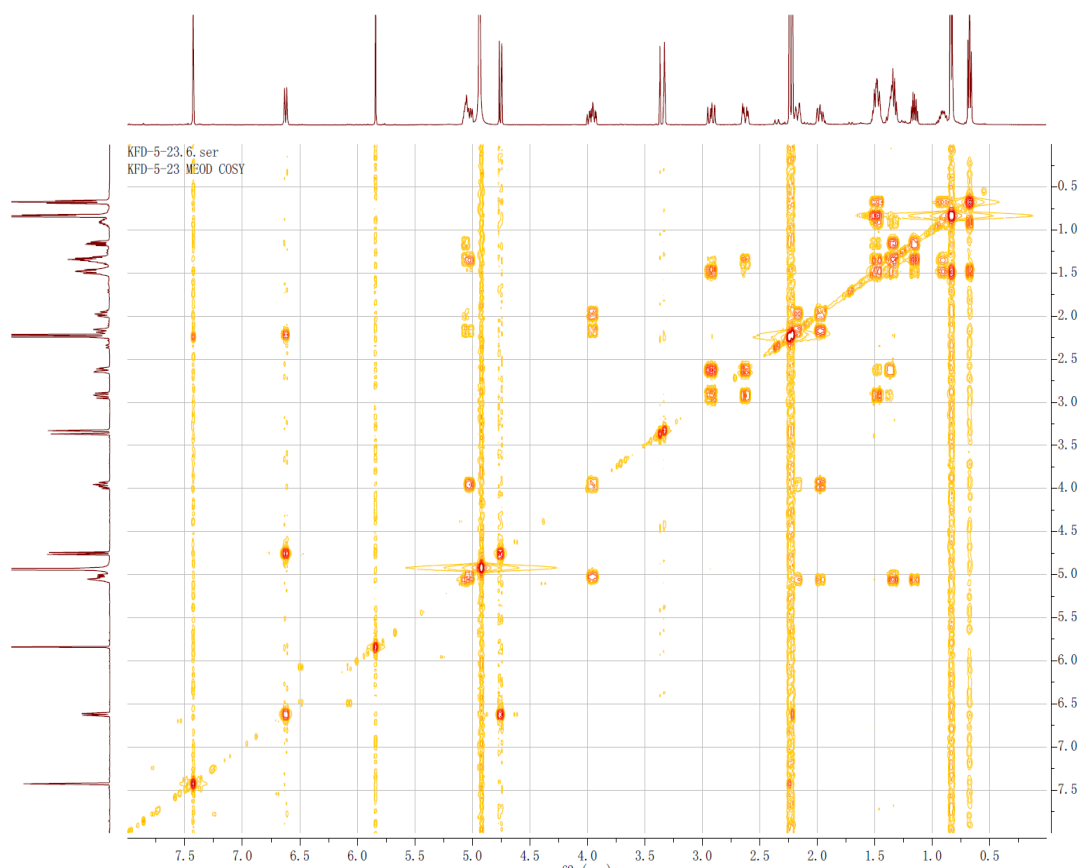


Figure S2-6. The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of **1**

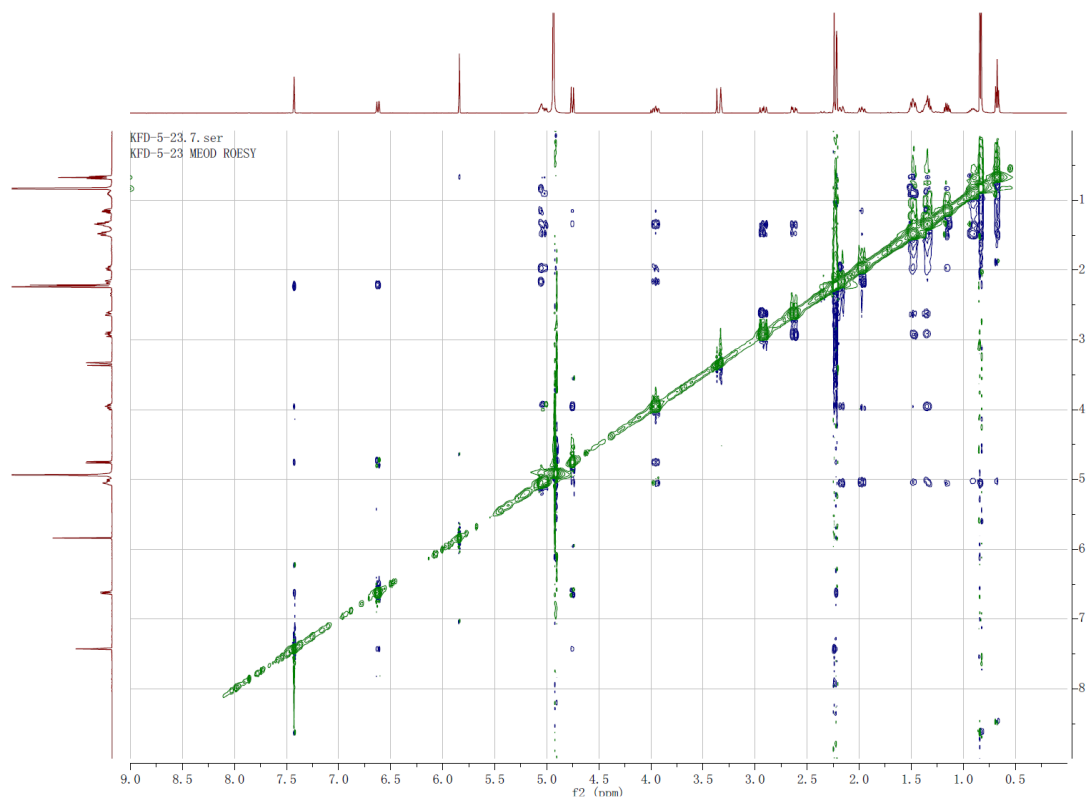


Figure S2-7. The ROESY spectrum of **1**

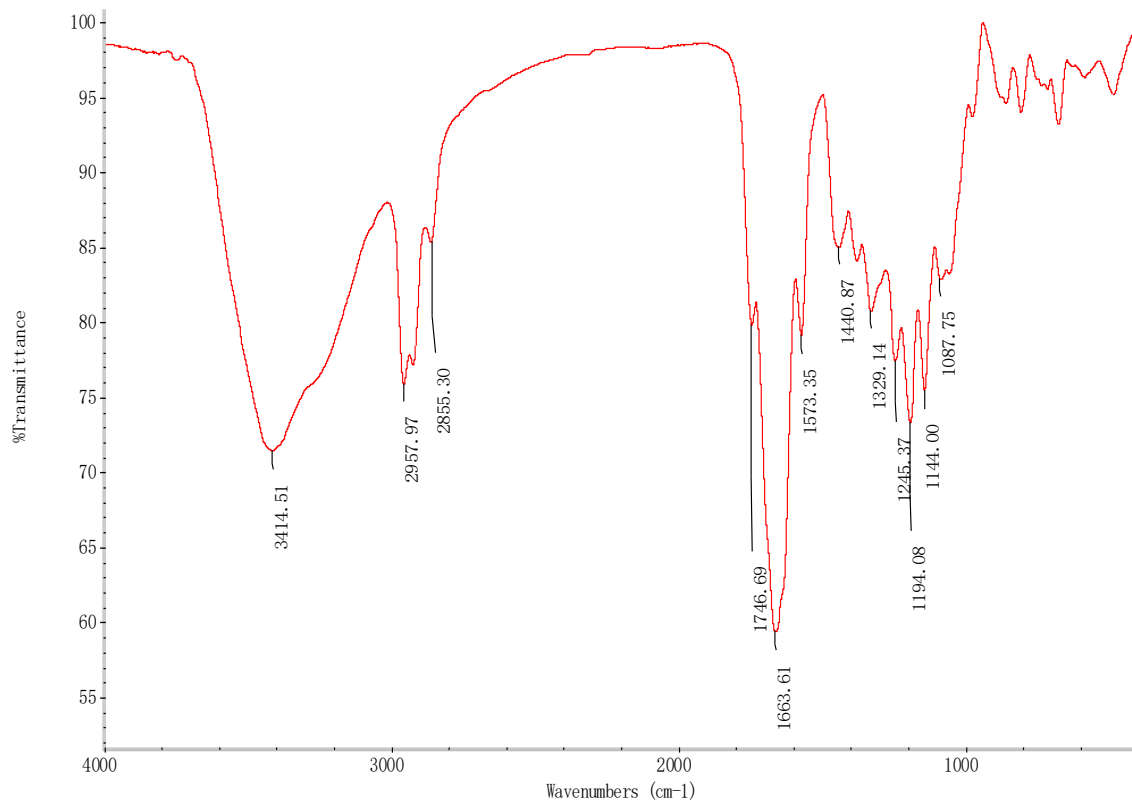
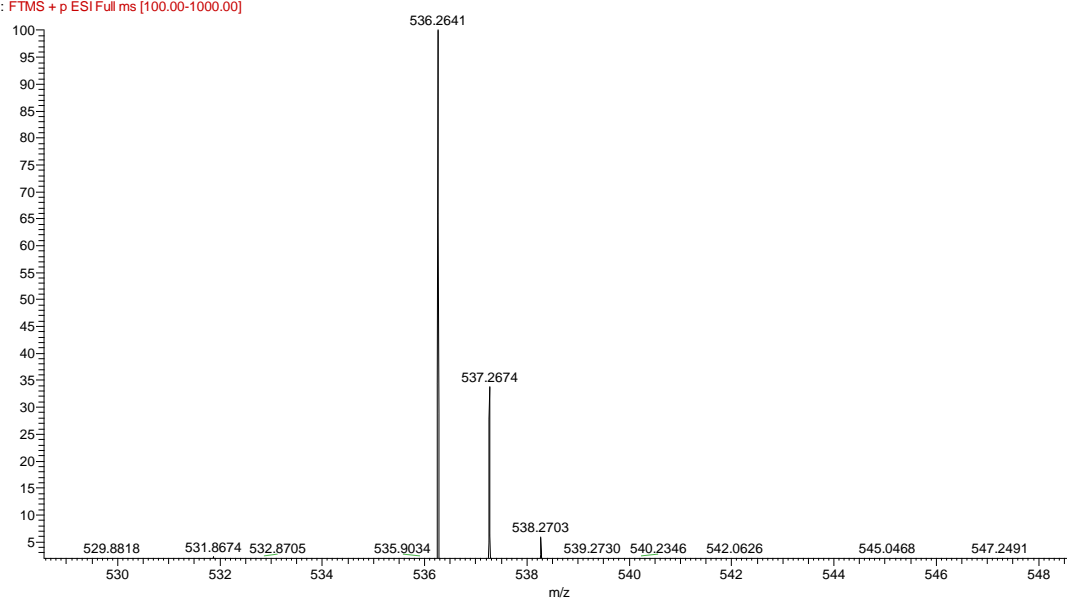


Figure S2-9. The IR spectrum of **1**

KFD-5-23 #150 RT: 1.31 AV: 1 NL: 4.26E6  
F: FTMS + p ESI Full ms [100.00-1000.00]



Idx	Formula	RDB	Delta ppm
1	C <sub>31</sub> H <sub>38</sub> O <sub>7</sub> N	13.5	-0.334

Calculated 536.2643 Found 536.2641

Figure S2-9. The HRESIMS spectrum of **1**

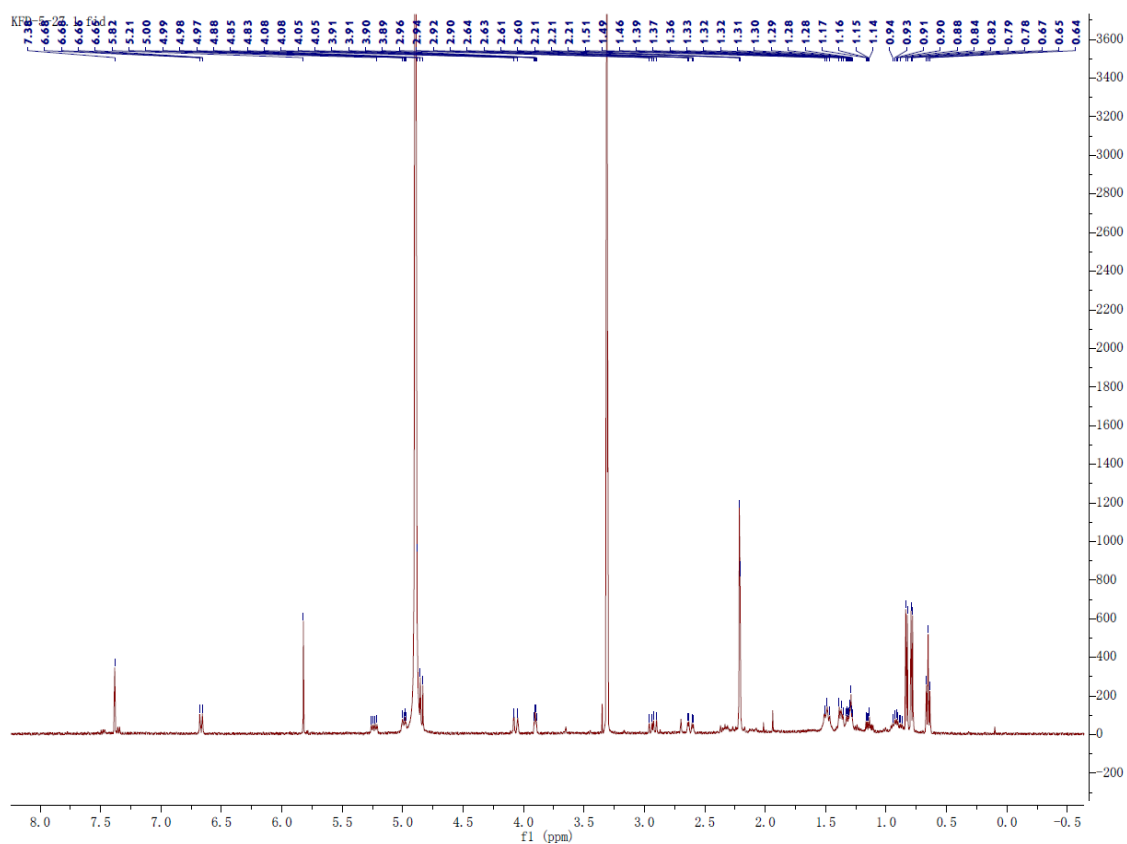


Figure S3-1. The <sup>1</sup>H NMR spectrum of **2**



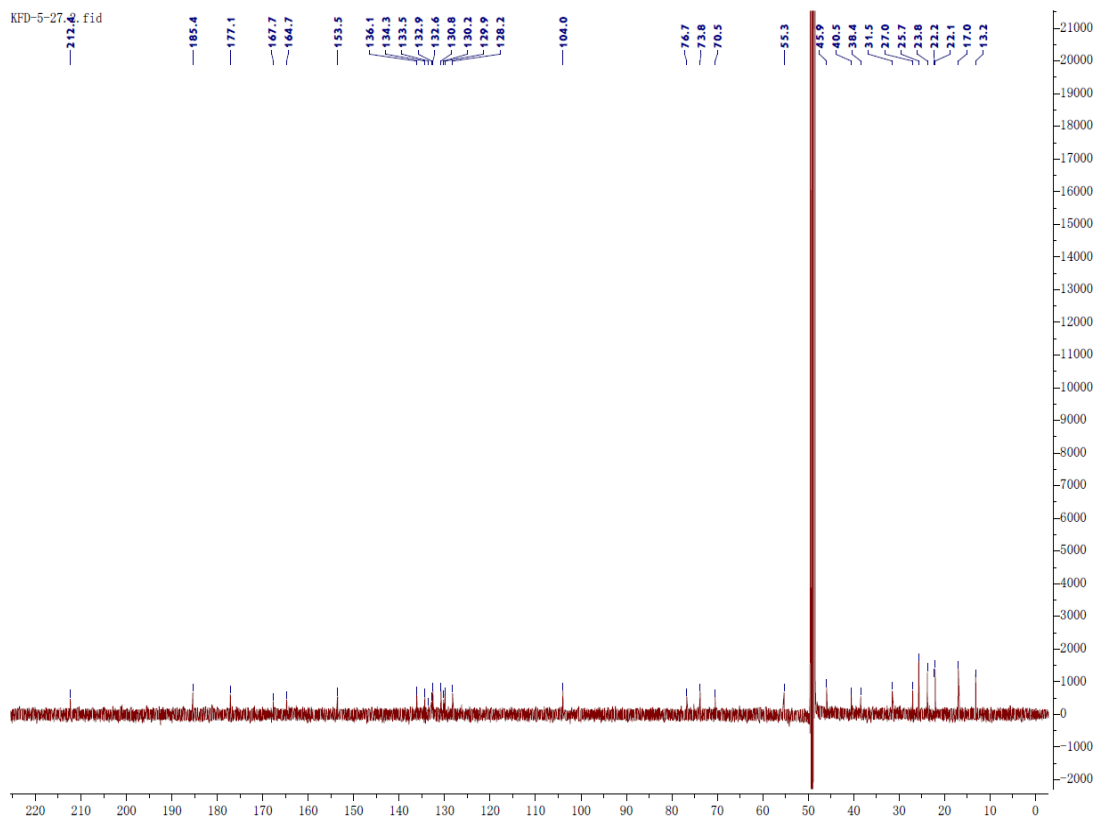


Figure S3-2. The  $^{13}\text{C}$  NMR spectrum of **2**

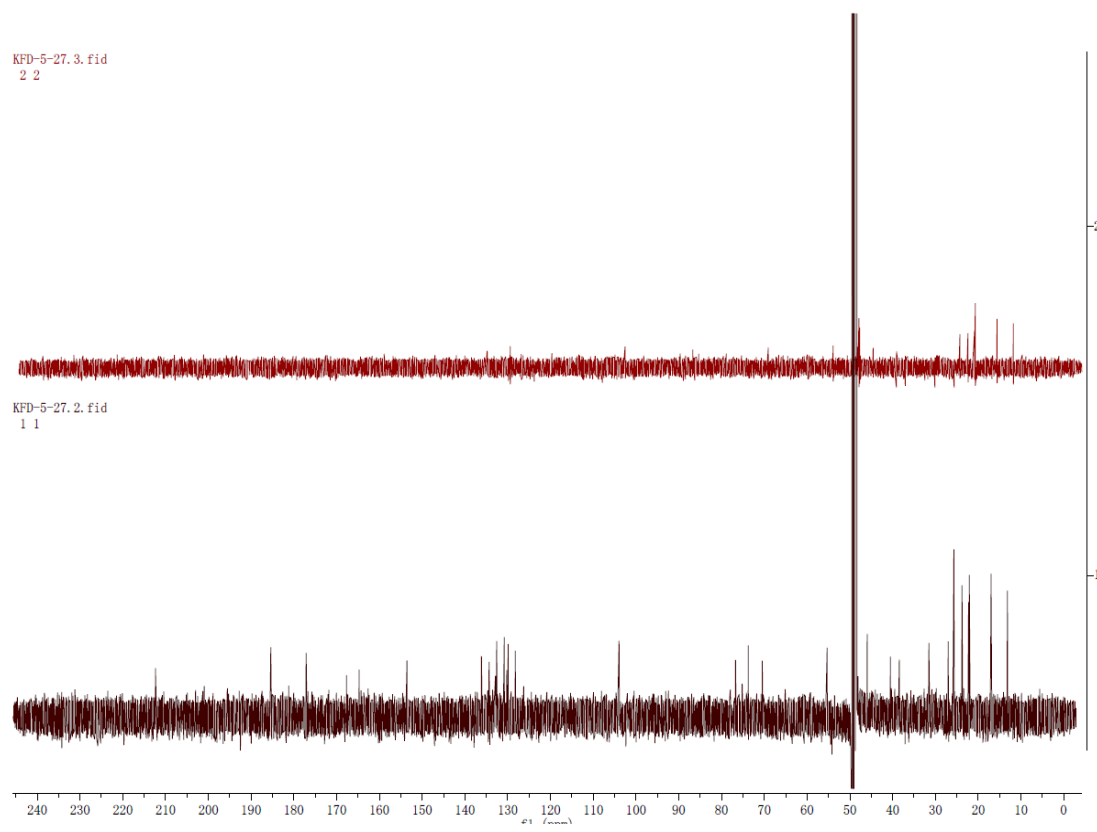


Figure S3-3. The DEPT spectrum of **2**

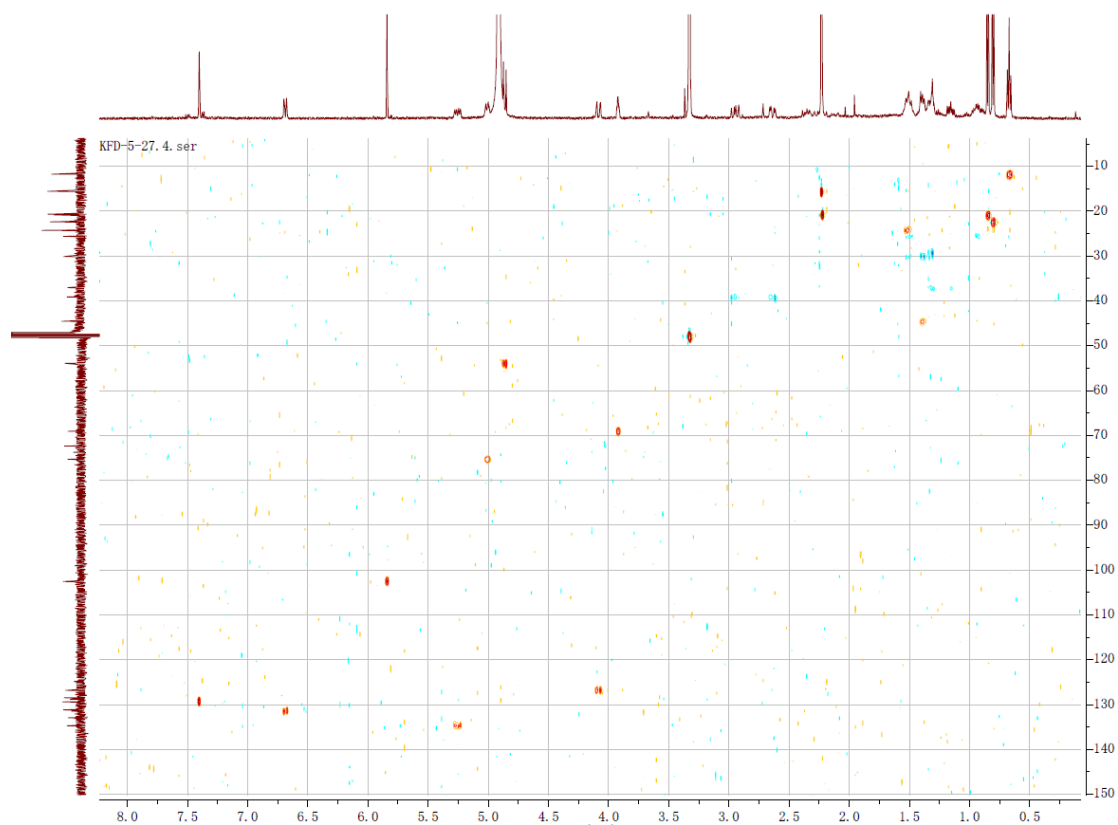


Figure S3-4. The HSQC spectrum of **2**

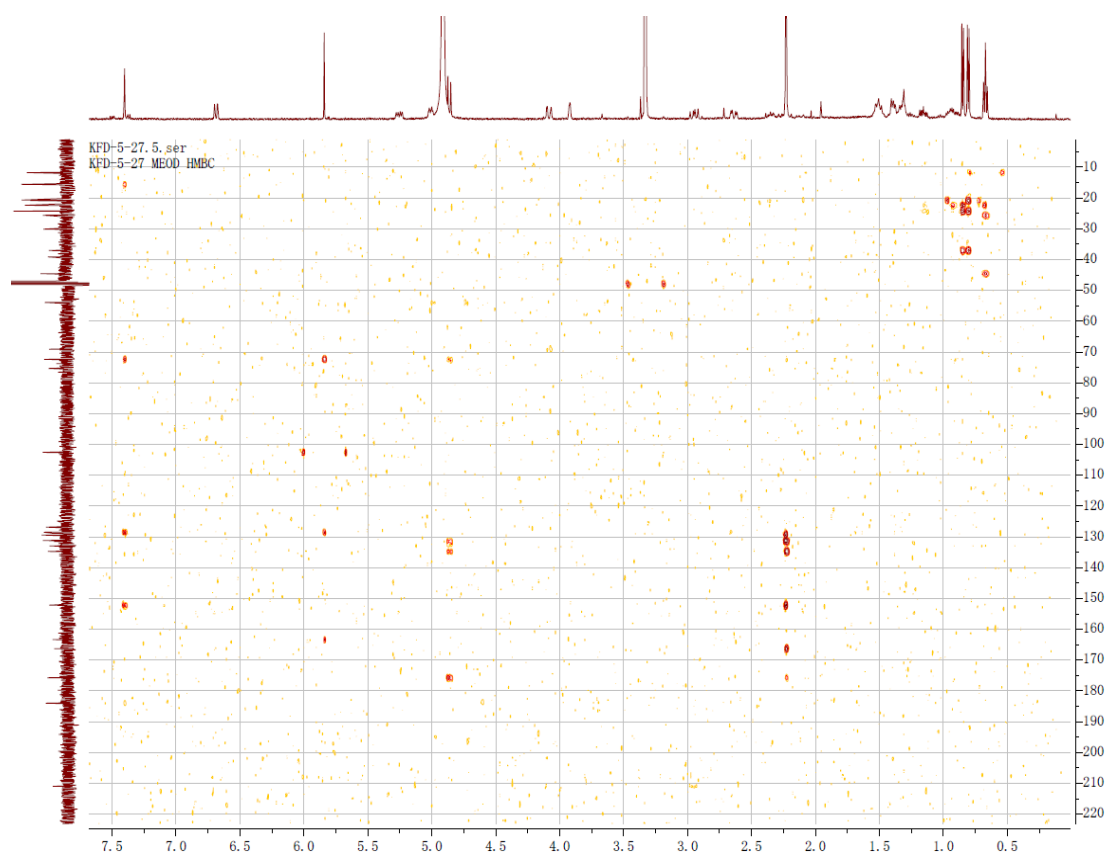


Figure S3-5. The HMBC spectrum of **2**

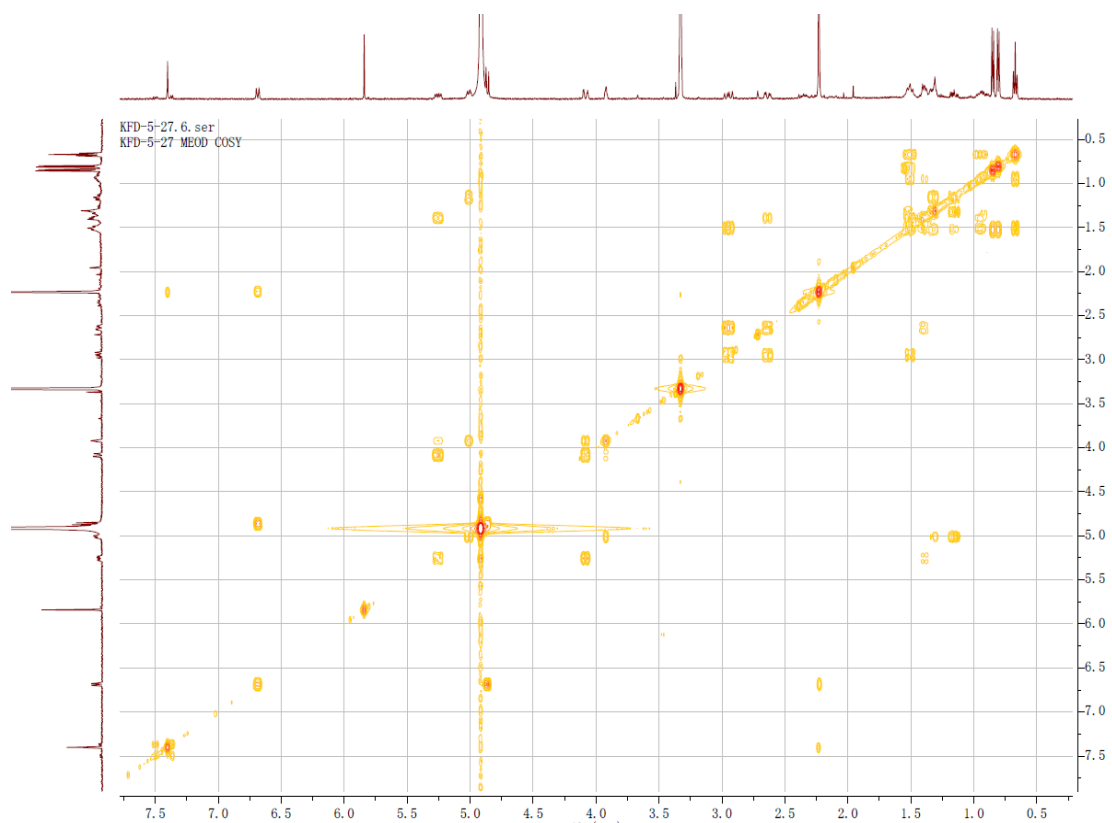


Figure S3-6. The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of **2**

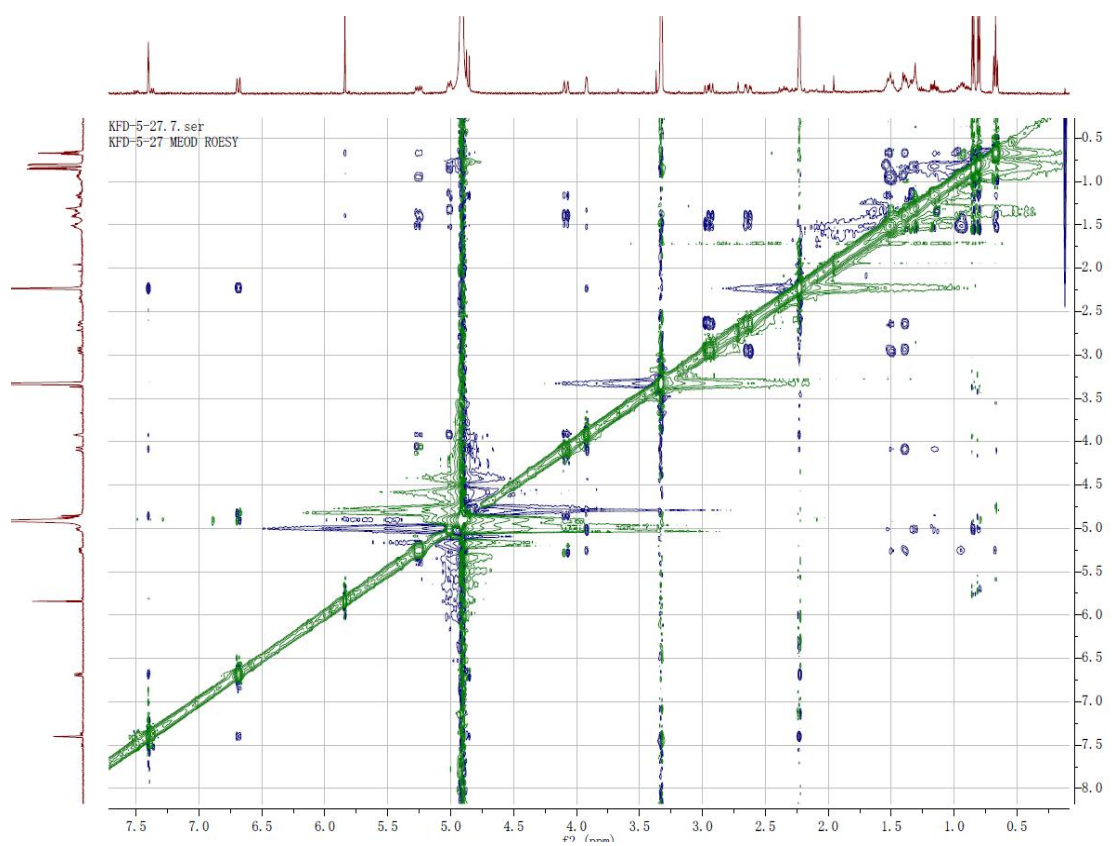


Figure S3-7. The ROESY spectrum of **2**

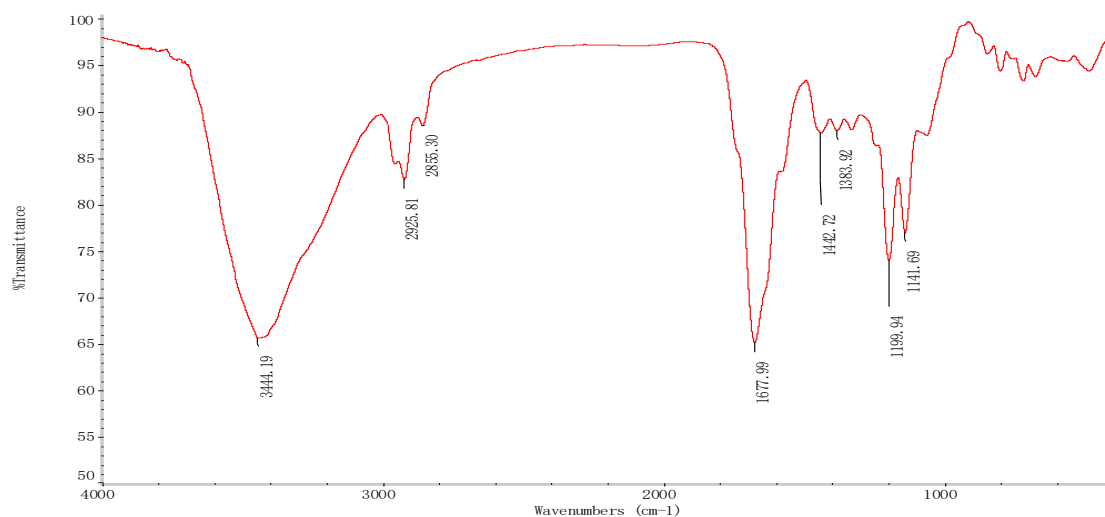


Figure S3-8. The IR spectrum of **2**

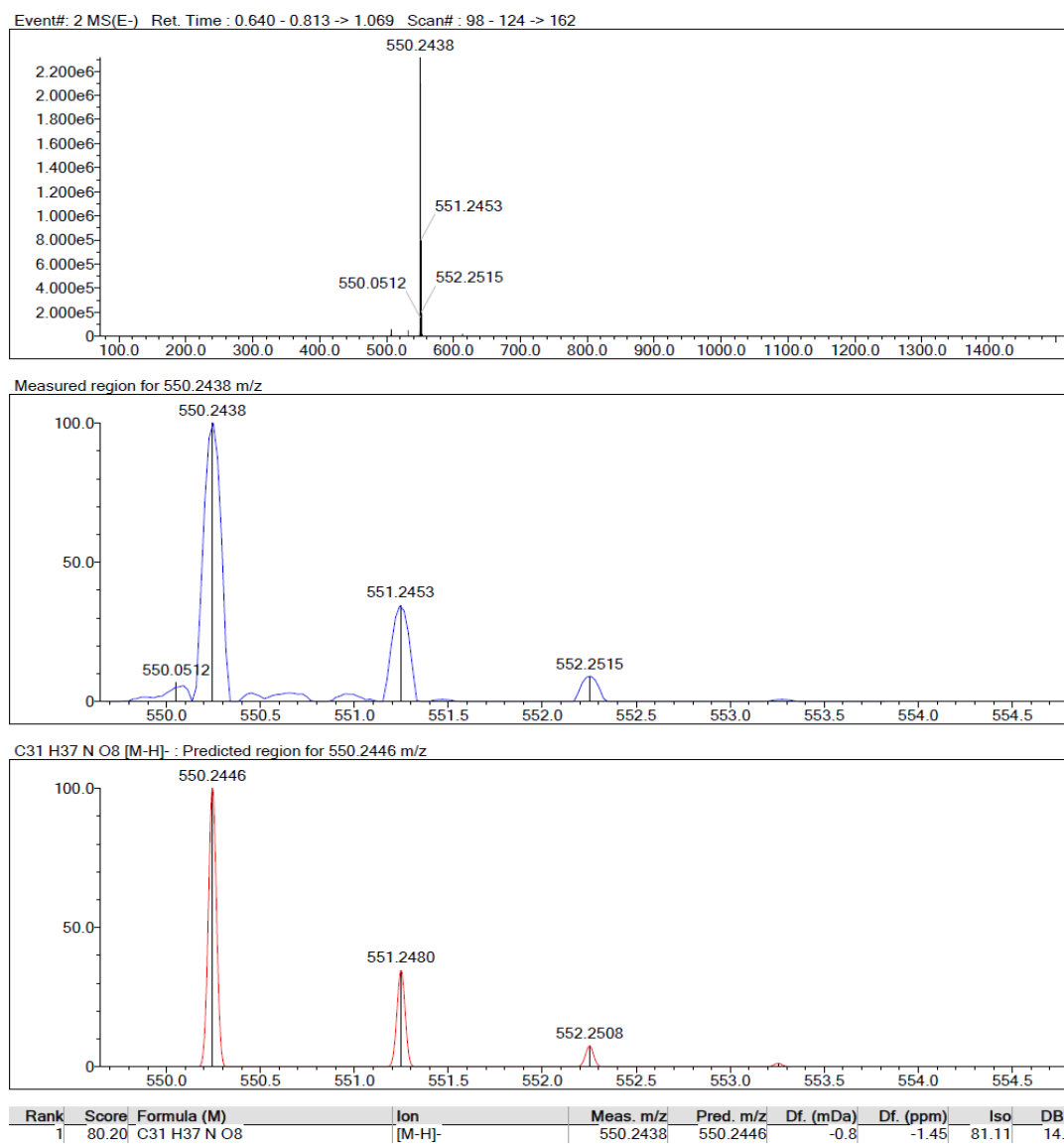


Figure S3-9. The HRESIMS spectrum of **2**

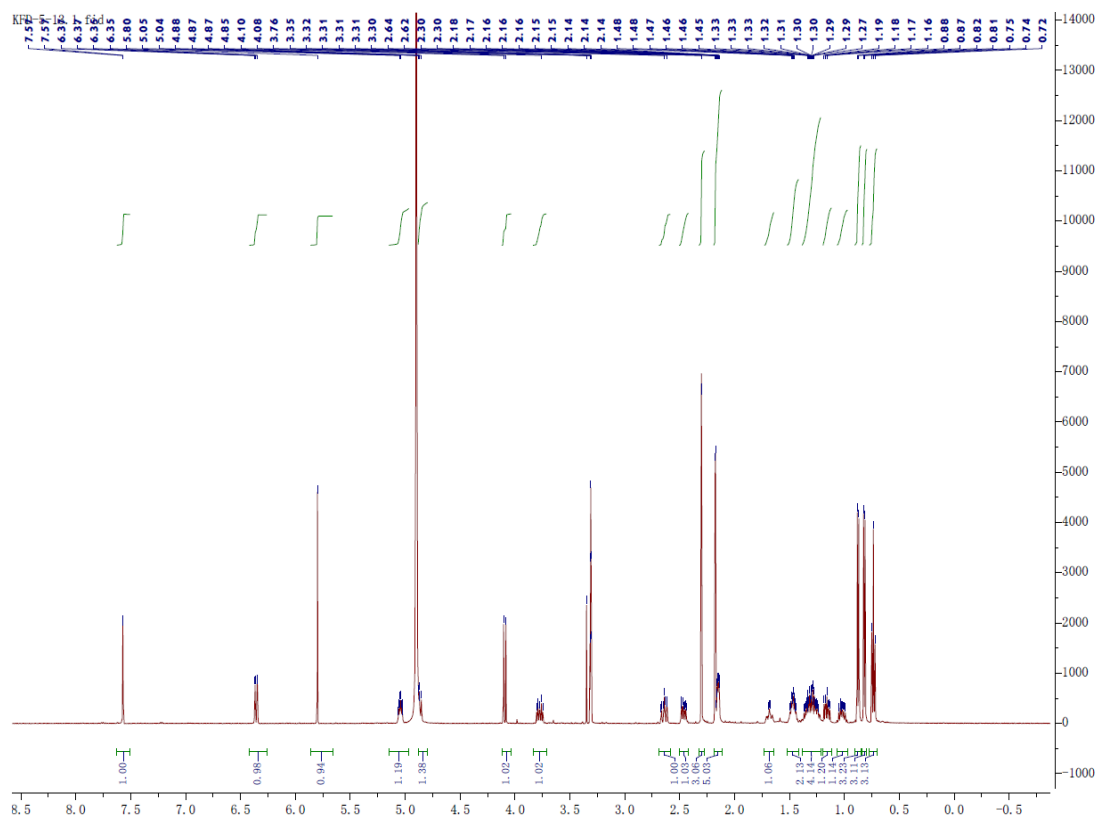


Figure S4-1. The  $^1\text{H}$  NMR spectrum of **3**

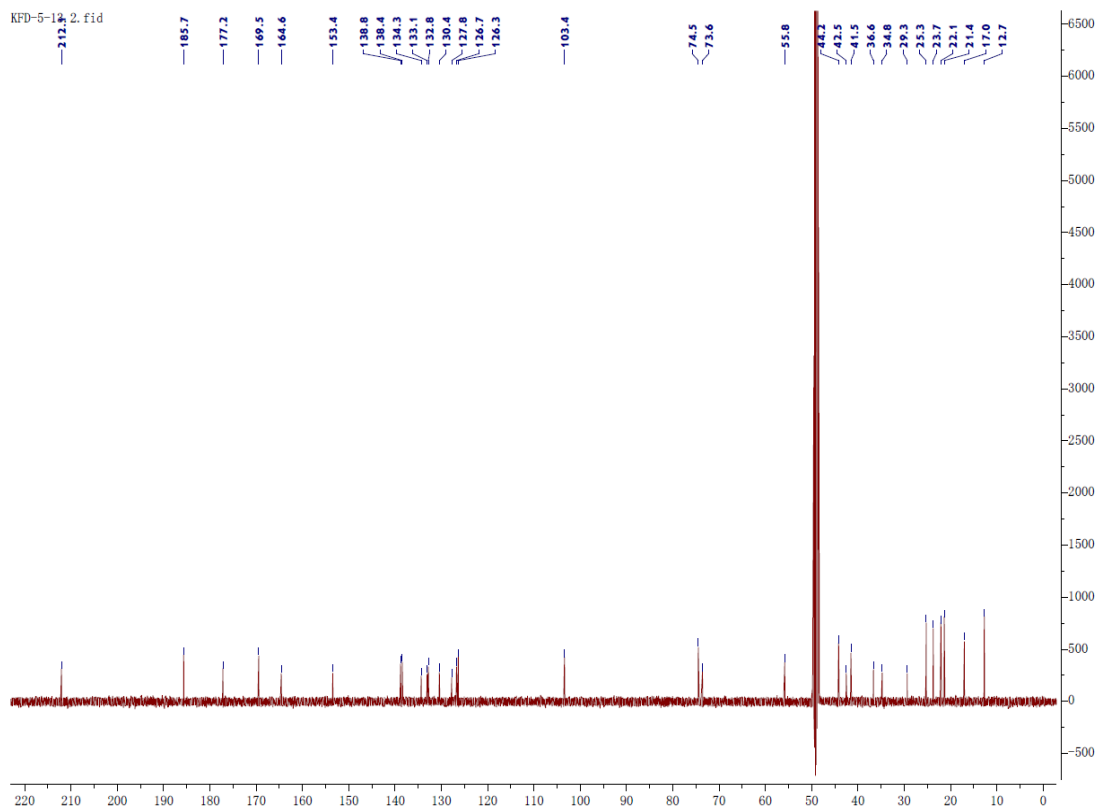


Figure S4-2. The  $^{13}\text{C}$  NMR spectrum of **3**

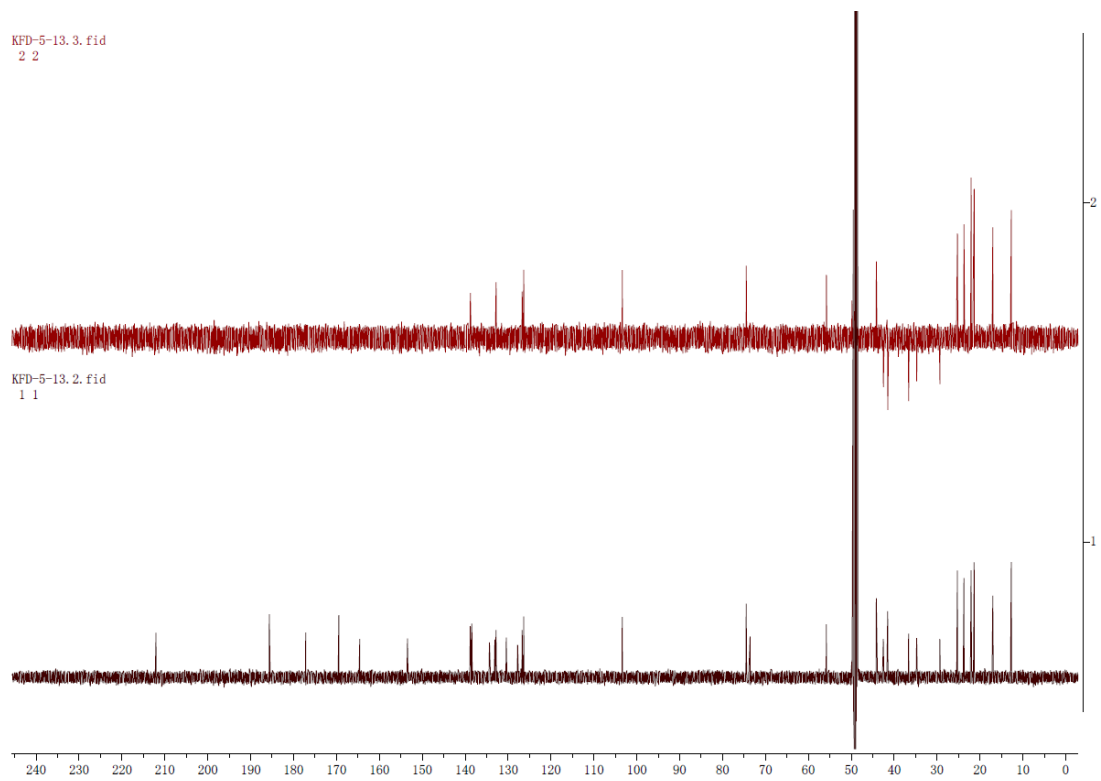


Figure S4-3. The DEPT spectrum of **3**

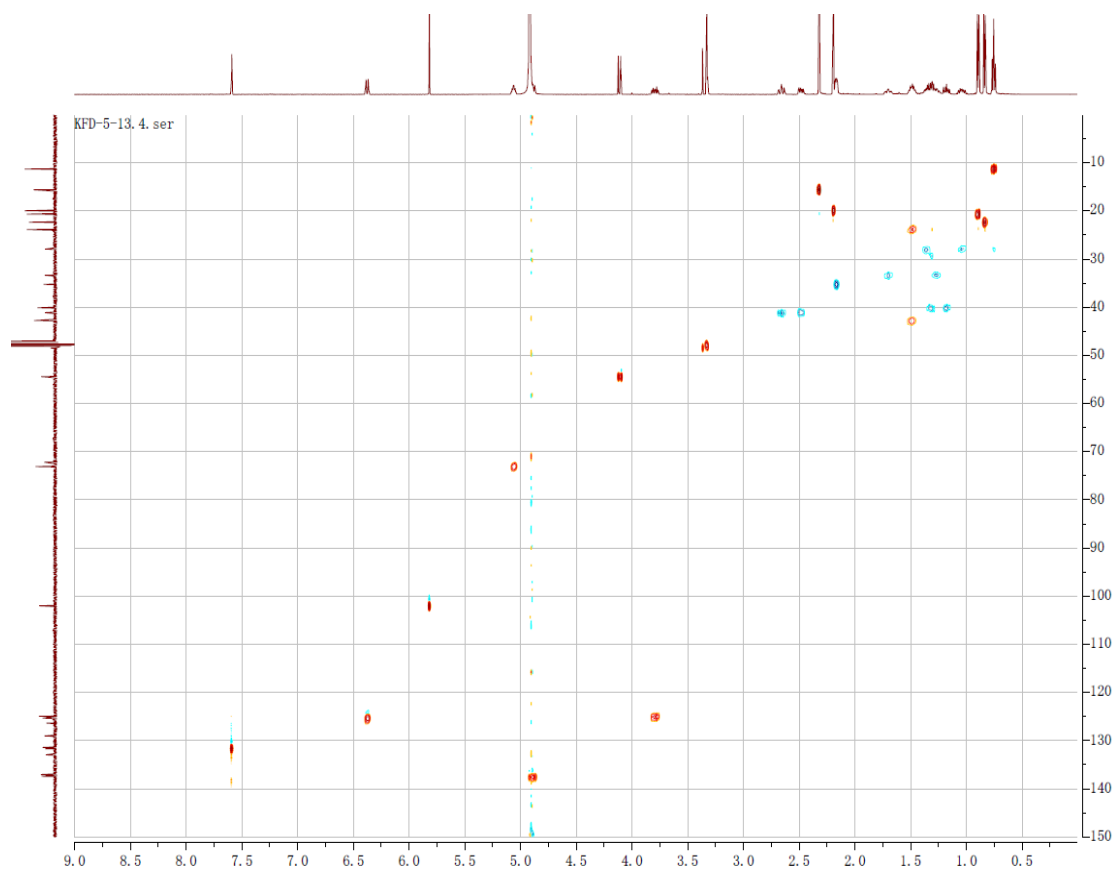


Figure S4-4. The HSQC spectrum of **3**

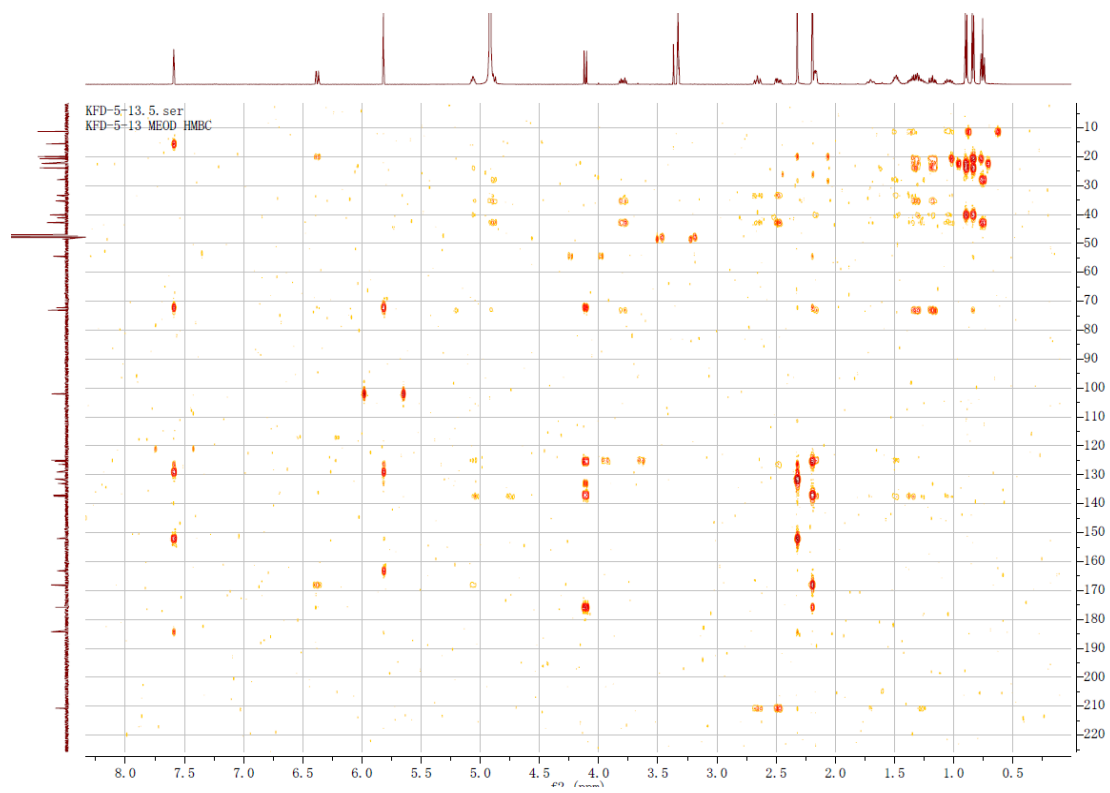


Figure S4-5. The HMBC spectrum of **3**

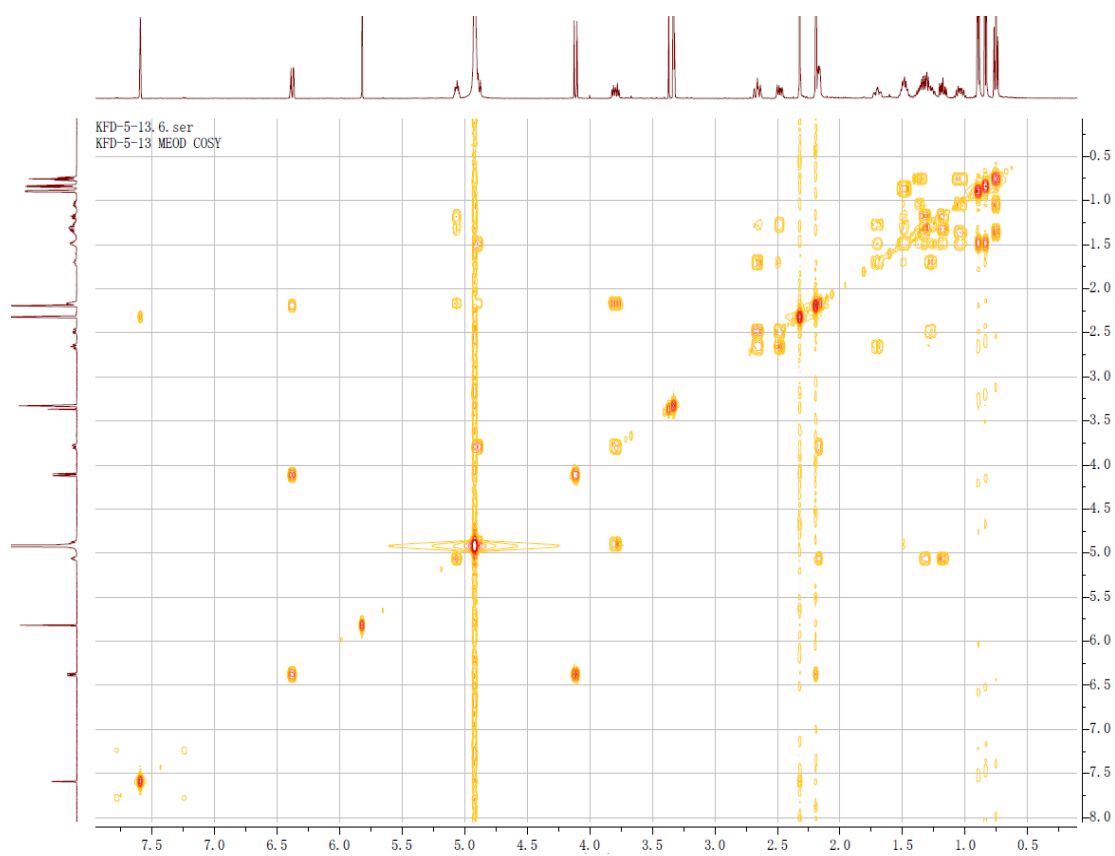


Figure S4-6. The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of **3**

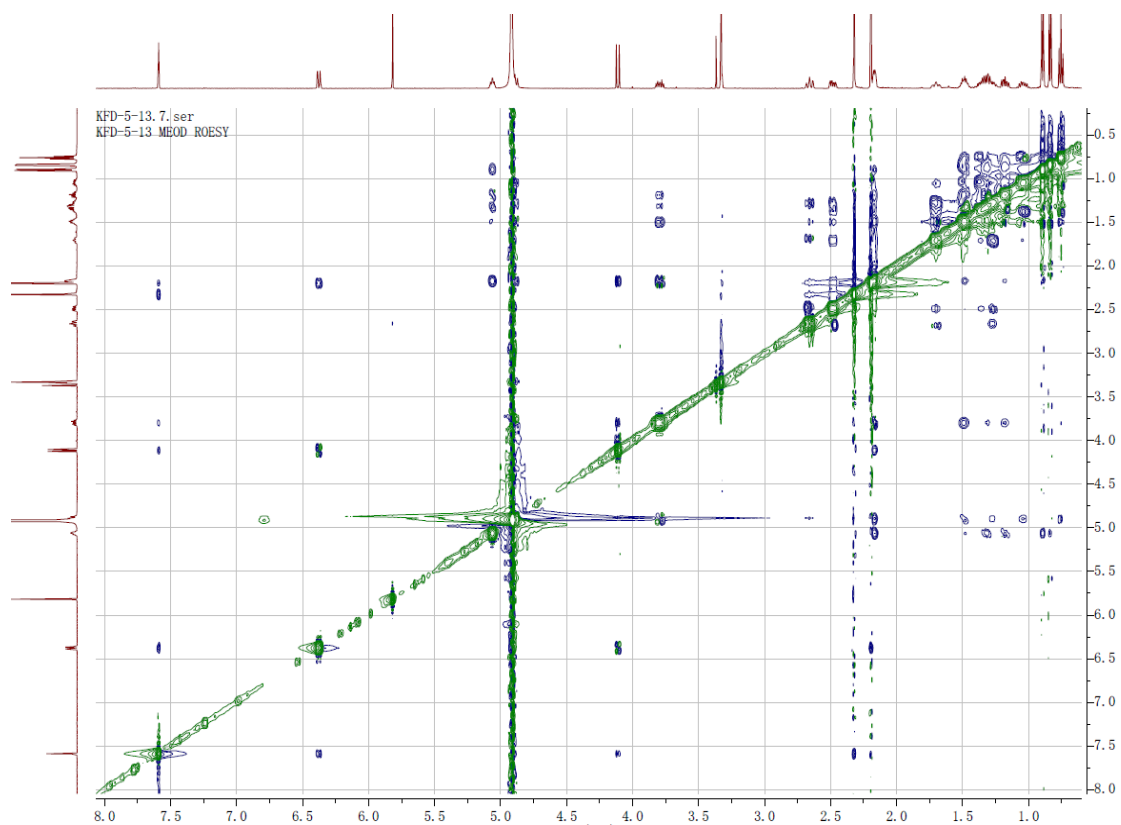


Figure S4-7. The ROESY spectrum of **3**

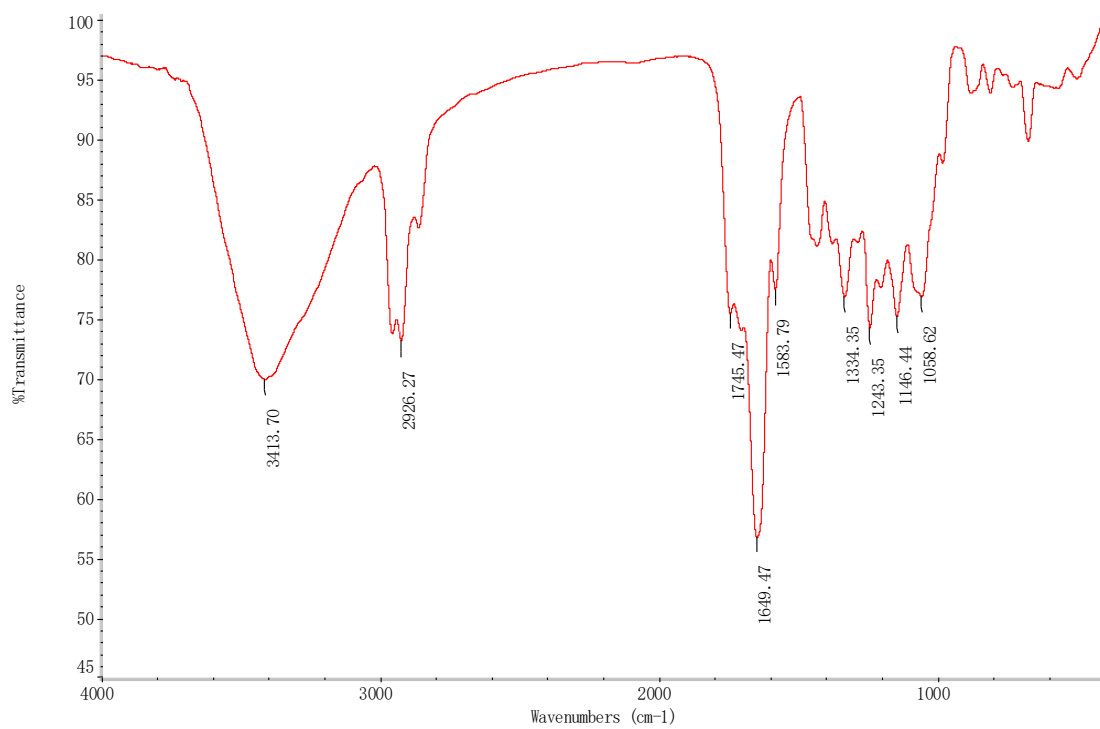
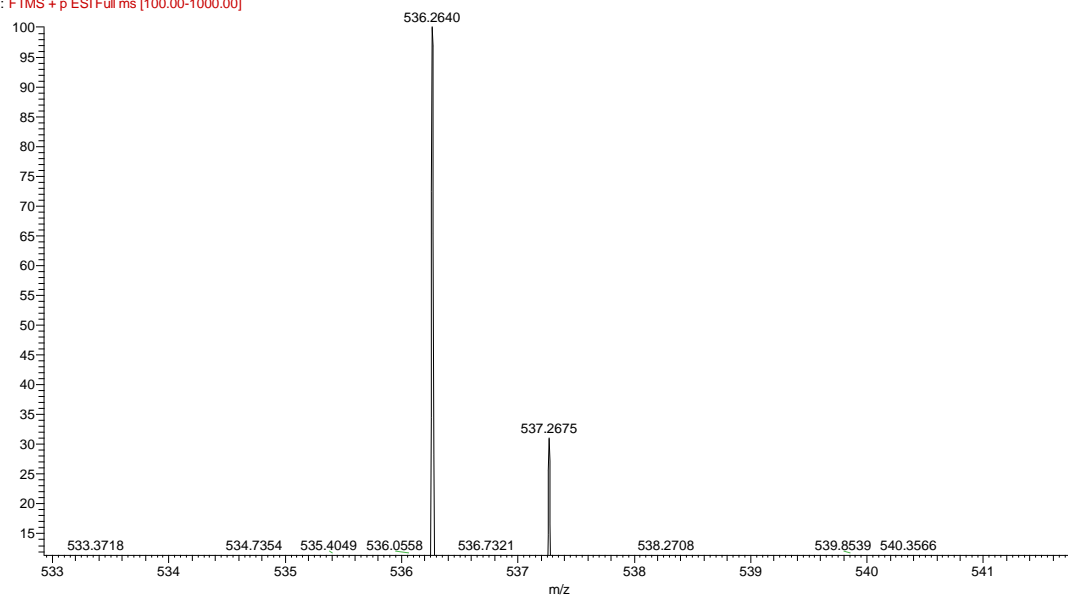


Figure S4-8. The IR spectrum of **3**



KFD-5-13 #142 RT: 1.24 AV: 1 NL: 3.06E5  
F: FTMS + p ESI Full ms [100.00-1000.00]



Idx	Formula	RDB	Delta ppm
1	C <sub>31</sub> H <sub>38</sub> O <sub>7</sub> N	13.5	-0.446

Calculated 536.2643 Found 536.2640

Figure S4-9. The HRESIMS spectrum of **3**

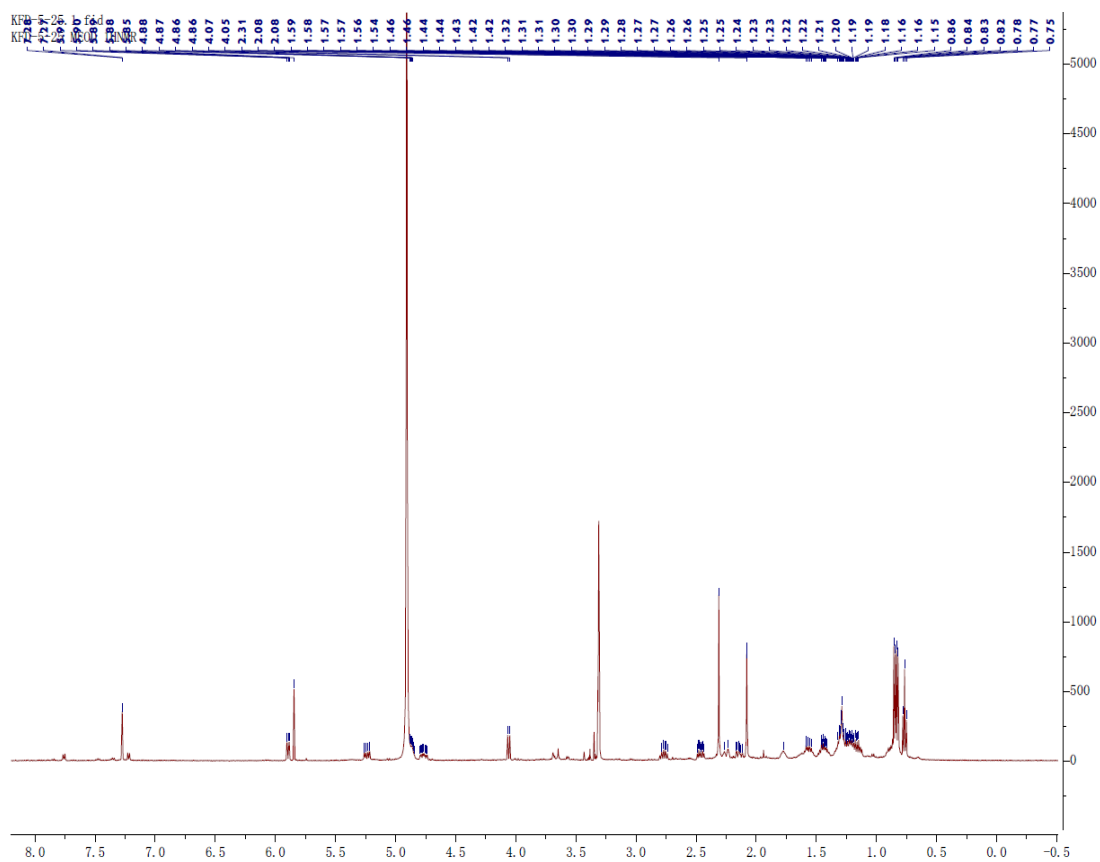


Figure S5-1. The <sup>1</sup>H NMR spectrum of **4**

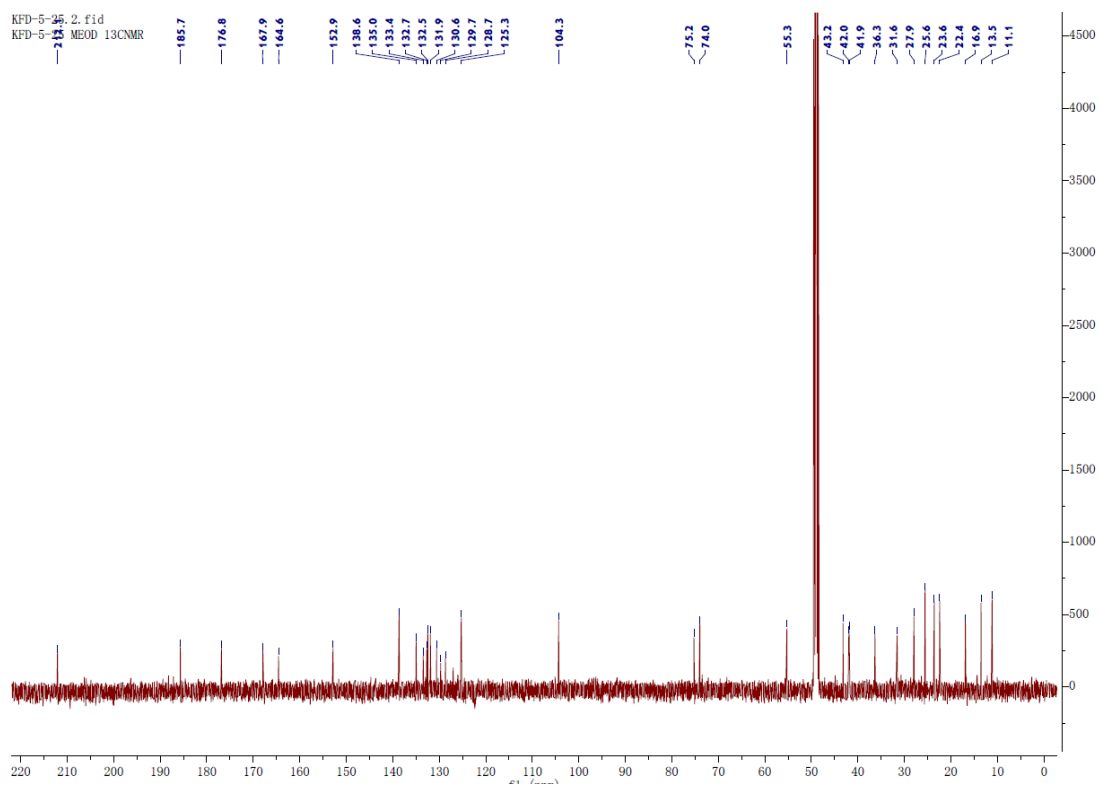


Figure S5-2. The  $^{13}\text{C}$  NMR spectrum of **4**

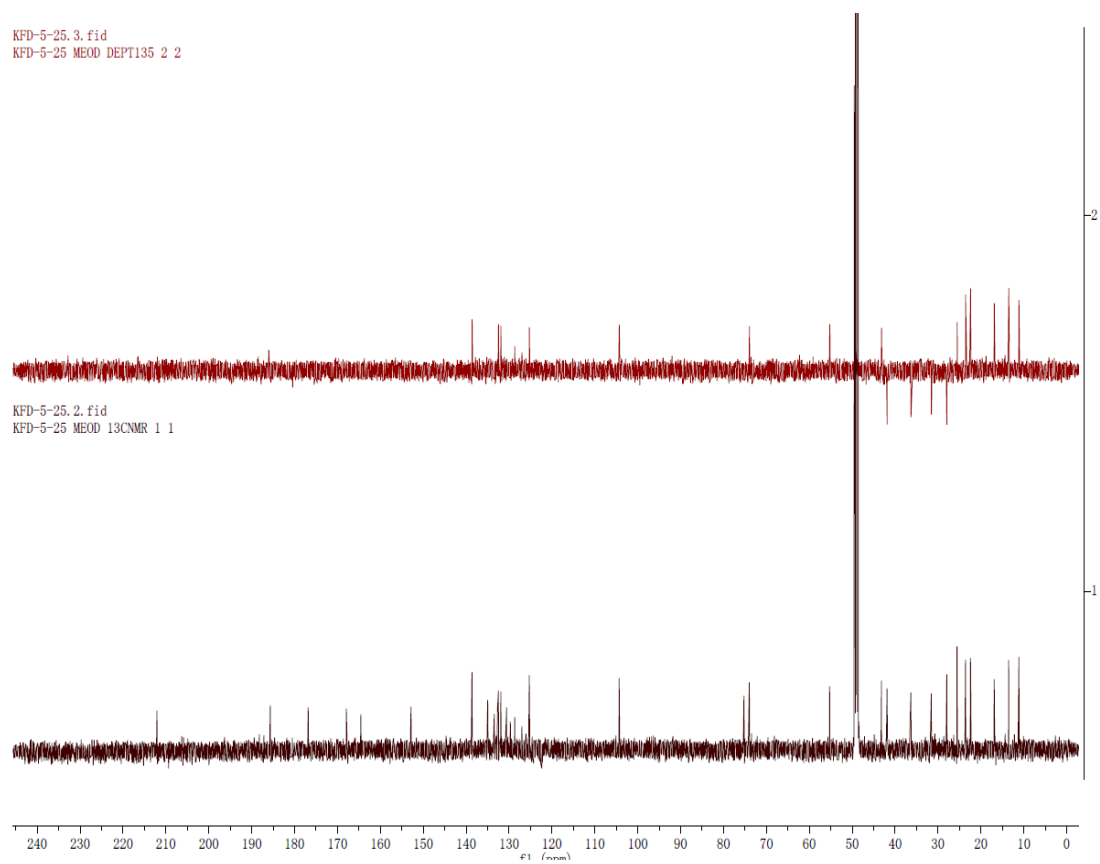


Figure S5-3. The DEPT spectrum of **4**

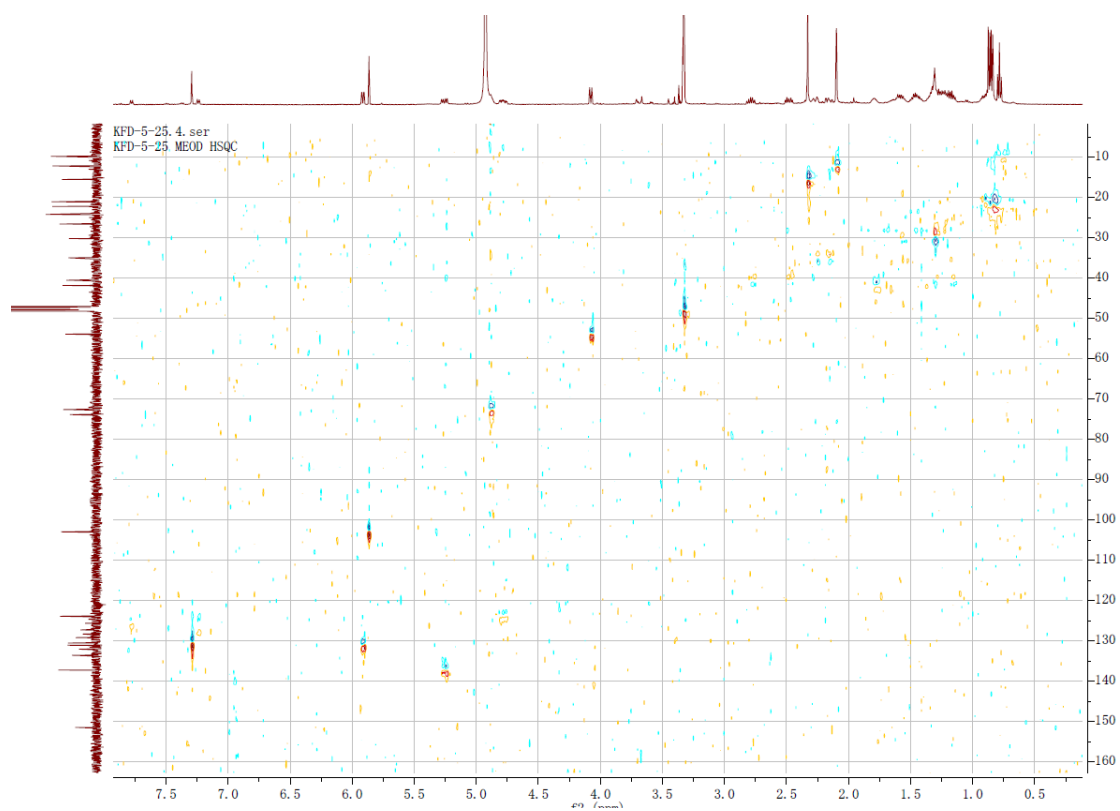


Figure S5-4. The HSQC spectrum of **4**



Figure S5-5. The HMBC spectrum of **4**

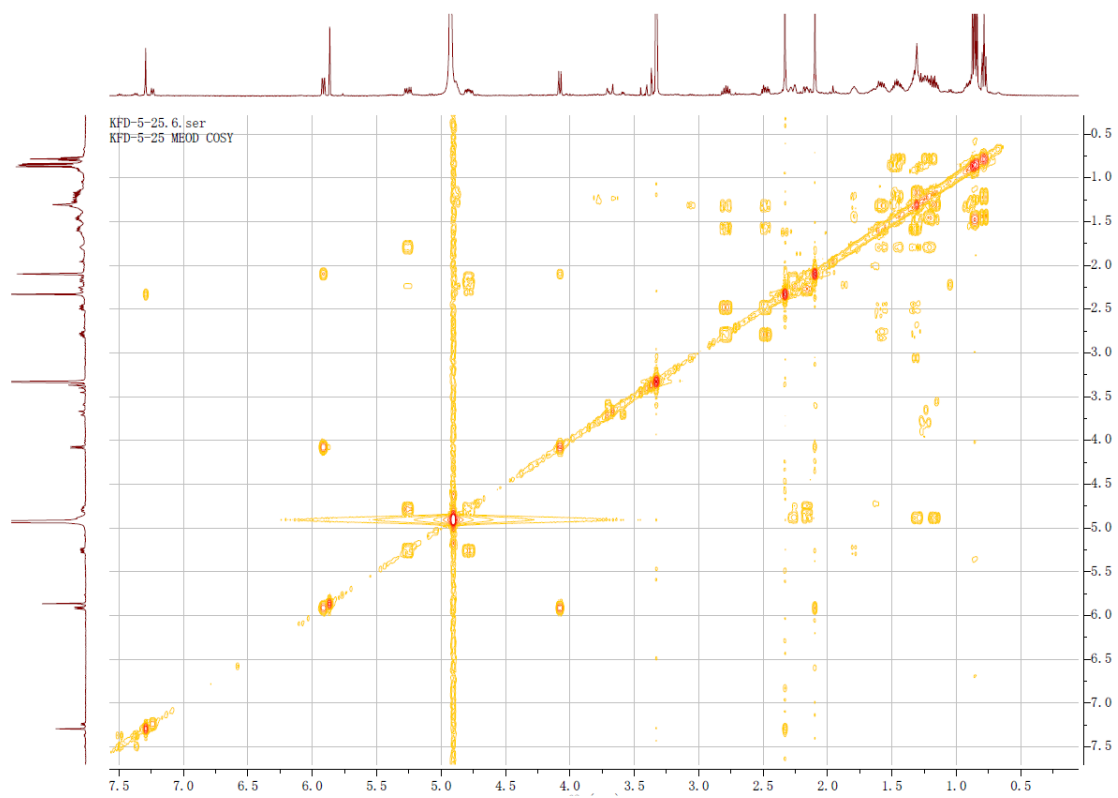


Figure S5-6. The <sup>1</sup>H-<sup>1</sup>H COSY spectrum of **4**

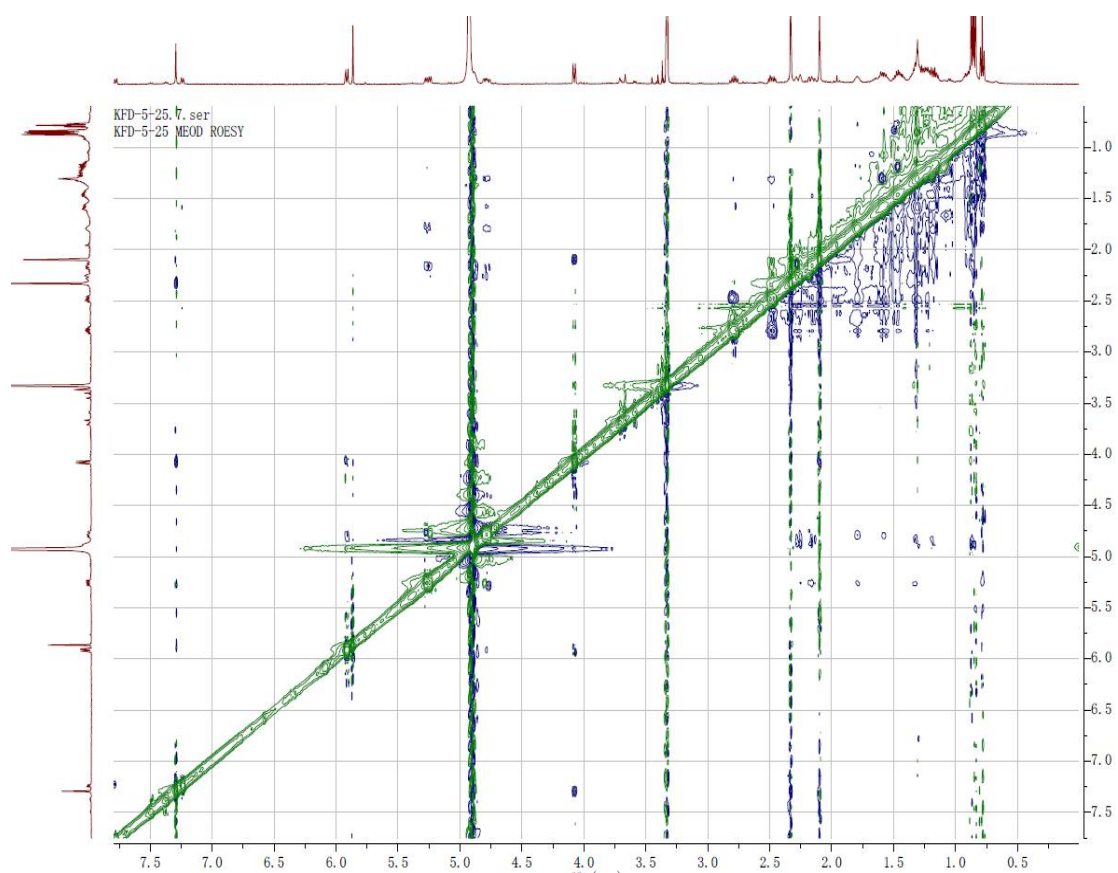


Figure S5-7. The ROESY spectrum of **4**

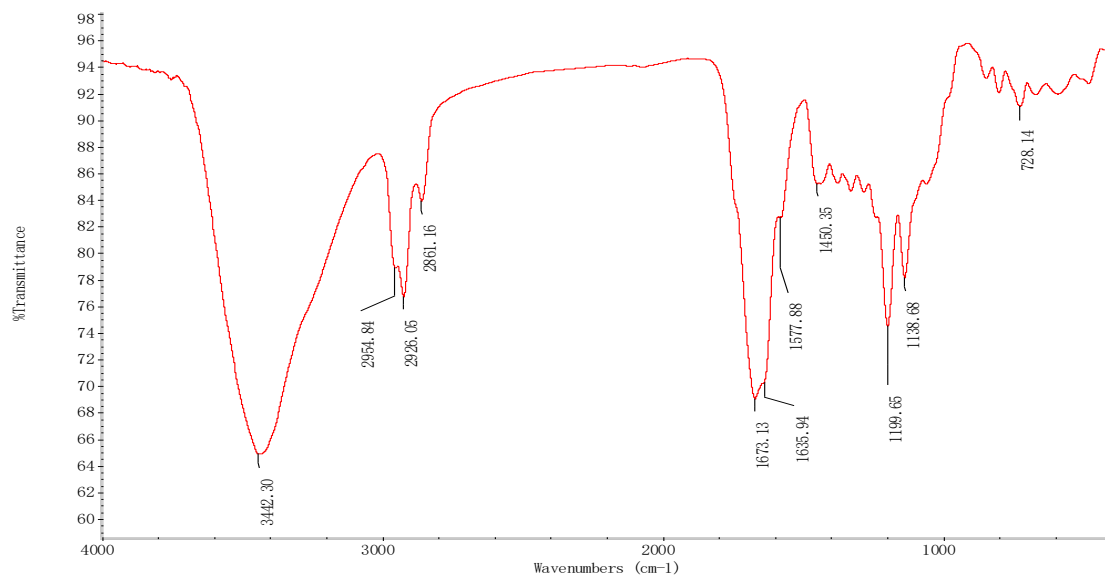


Figure S5-8. The IR spectrum of **4**

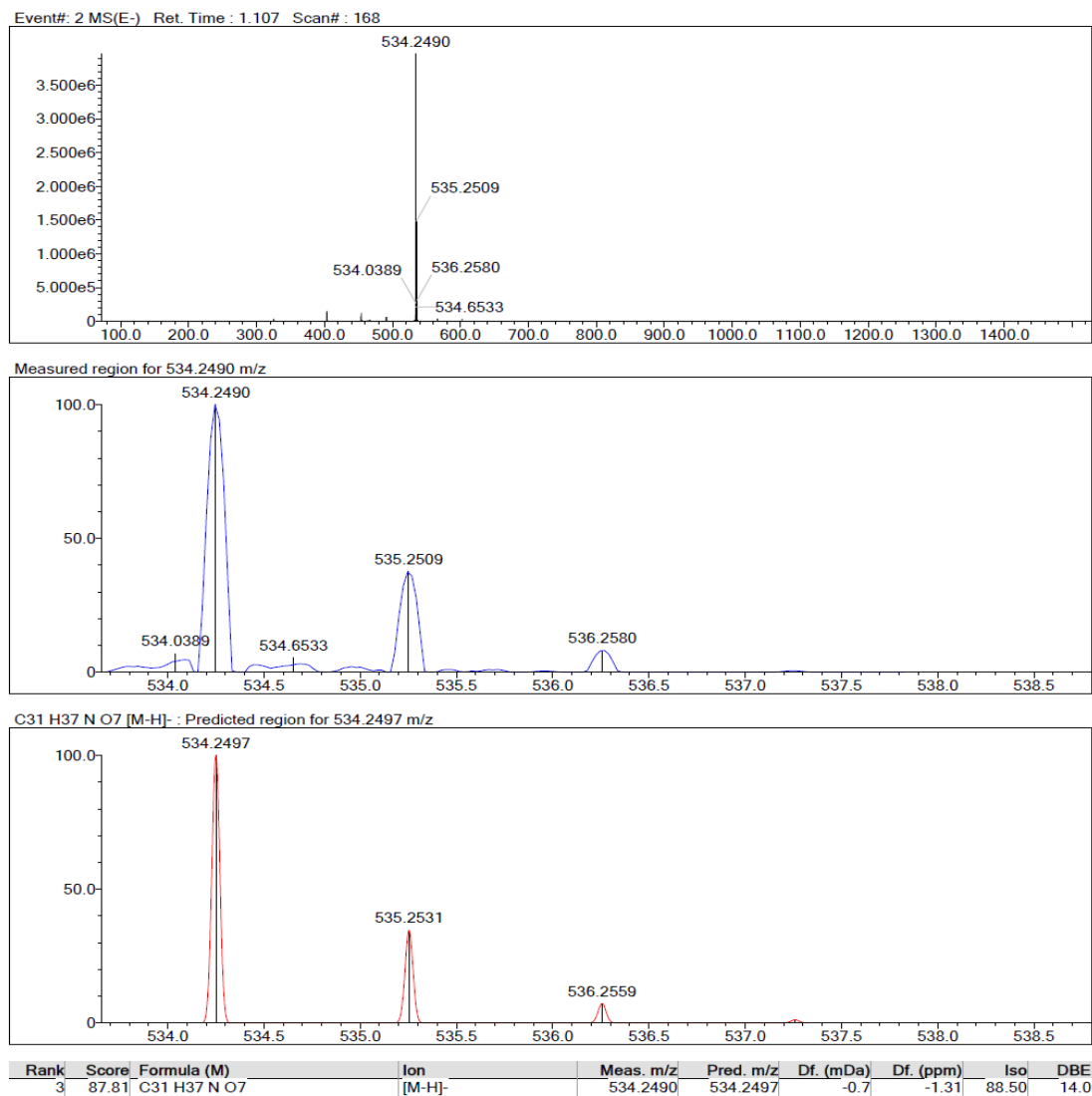


Figure S5-9. The HRESIMS spectrum of **4**