

Supplementary Materials: Bioactive Polycyclic Quinones from Marine *Streptomyces* sp. 182SMLY

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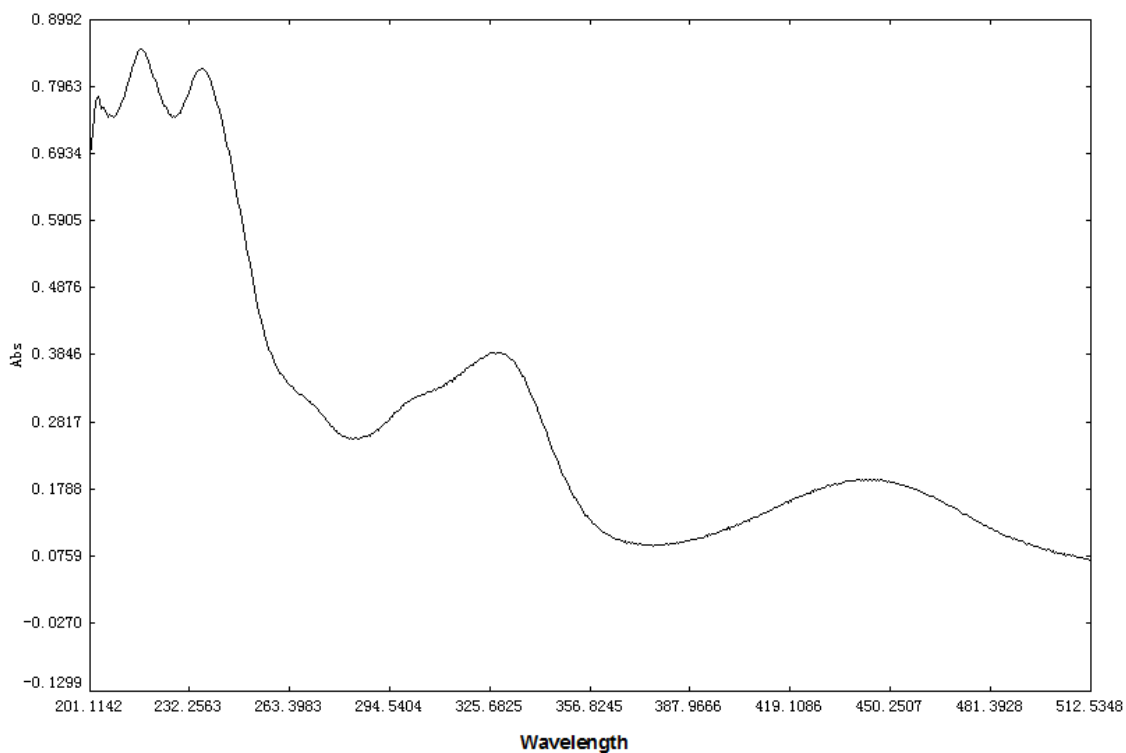


Figure S1. UV Spectrum of *N*-acetyl-*N*-demethylmayamycin (**1**).

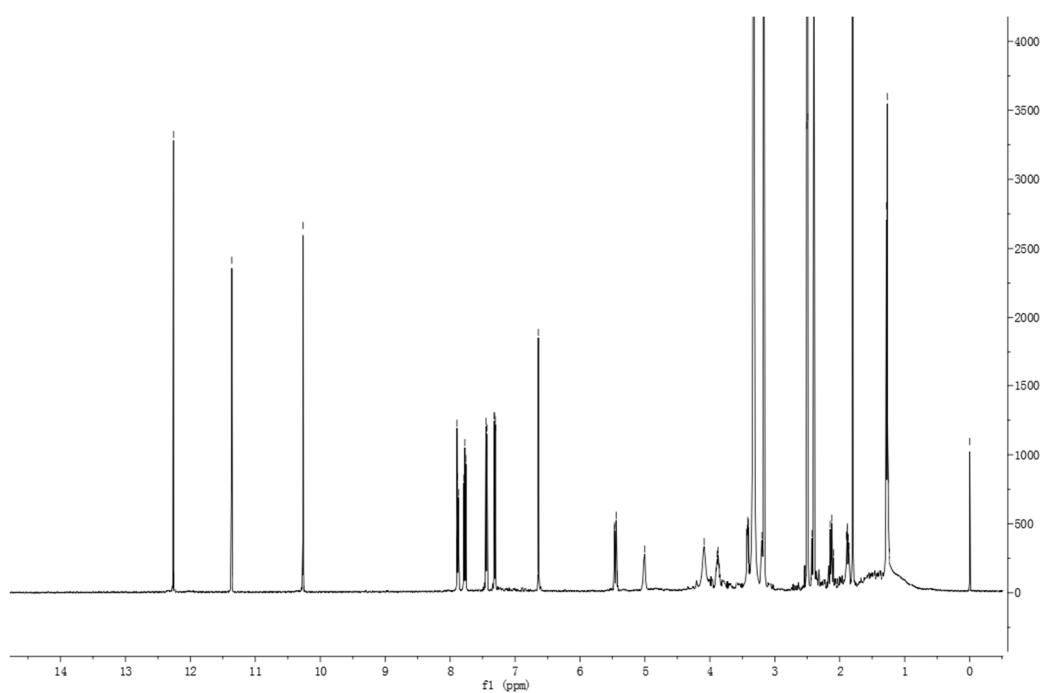


Figure S2. ¹H NMR Spectrum of *N*-acetyl-*N*-demethylmayamycin (**1**).

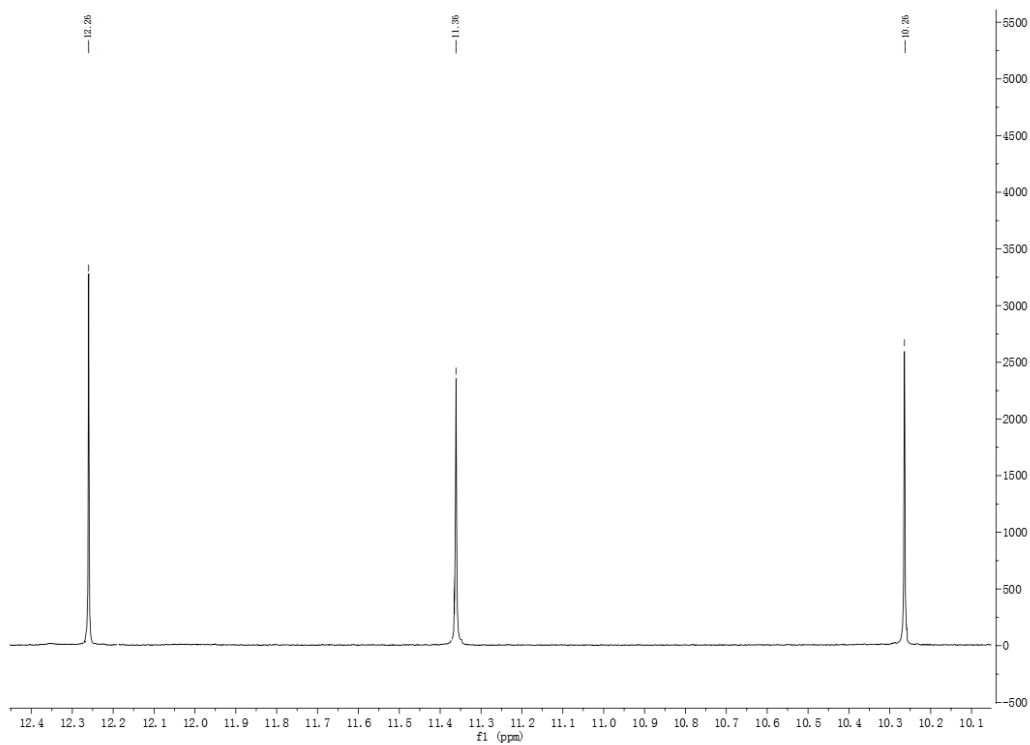


Figure S3. 1H NMR Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

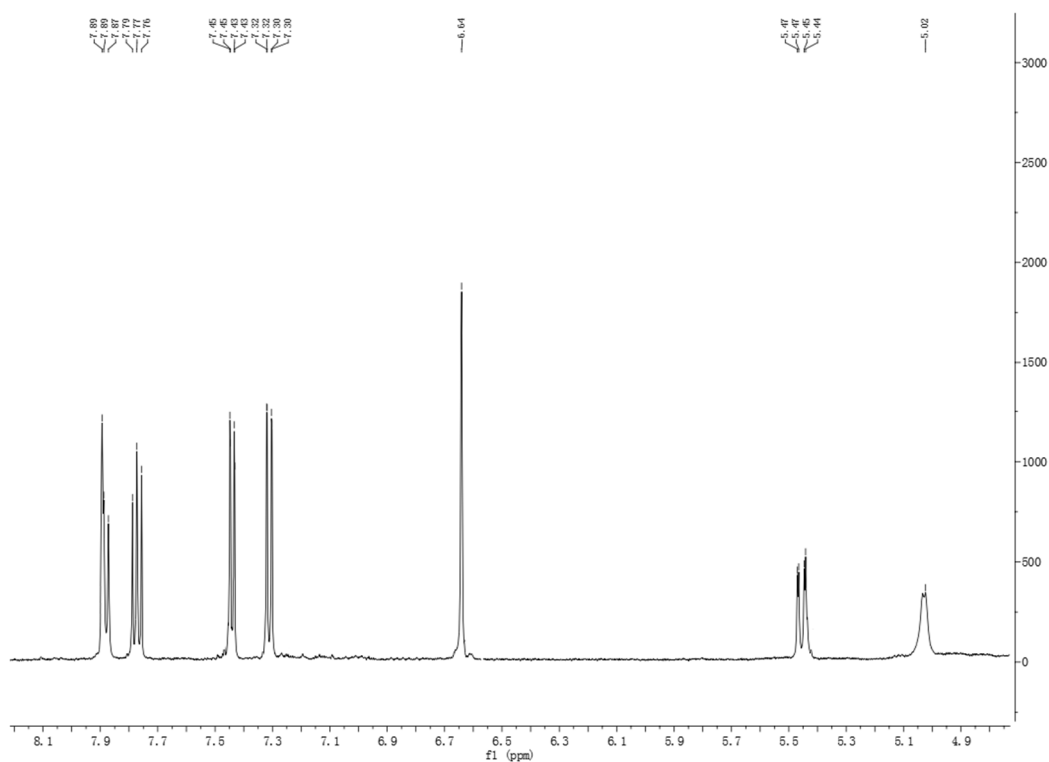


Figure S4. 1H NMR Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

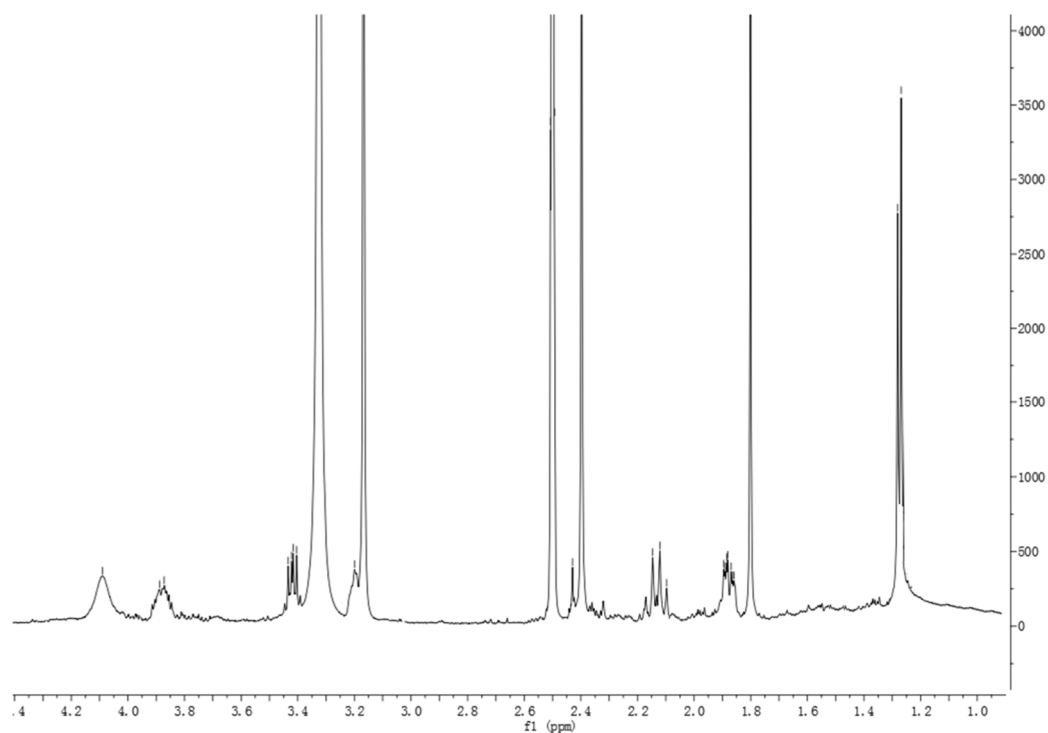


Figure S5. ¹H NMR Spectrum of *N*-acetyl-*N*-demethylmayamycin (**1**).

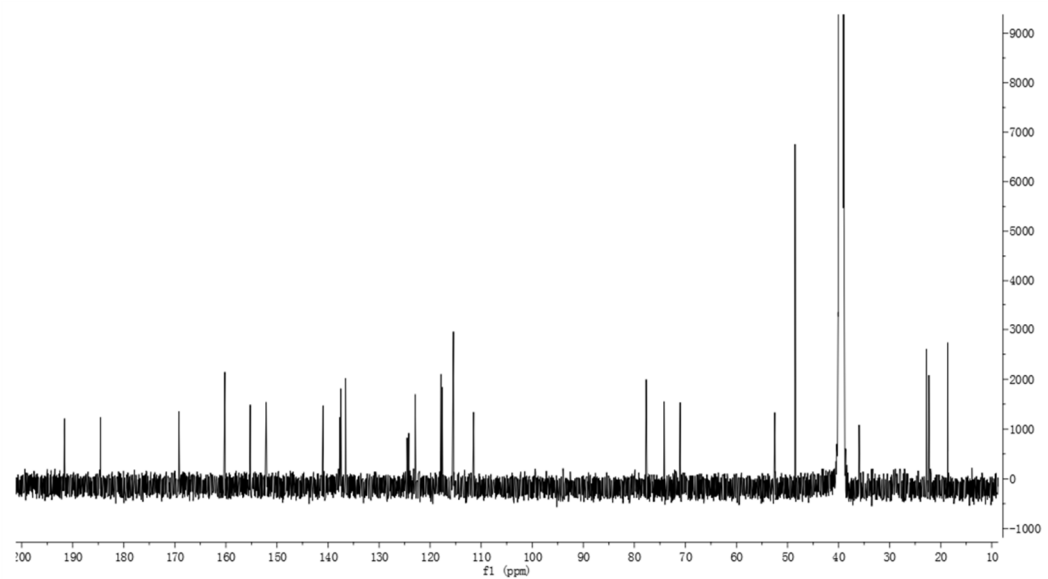


Figure S6. ¹³C-NMR of *N*-acetyl-*N*-demethylmayamycin (**1**).

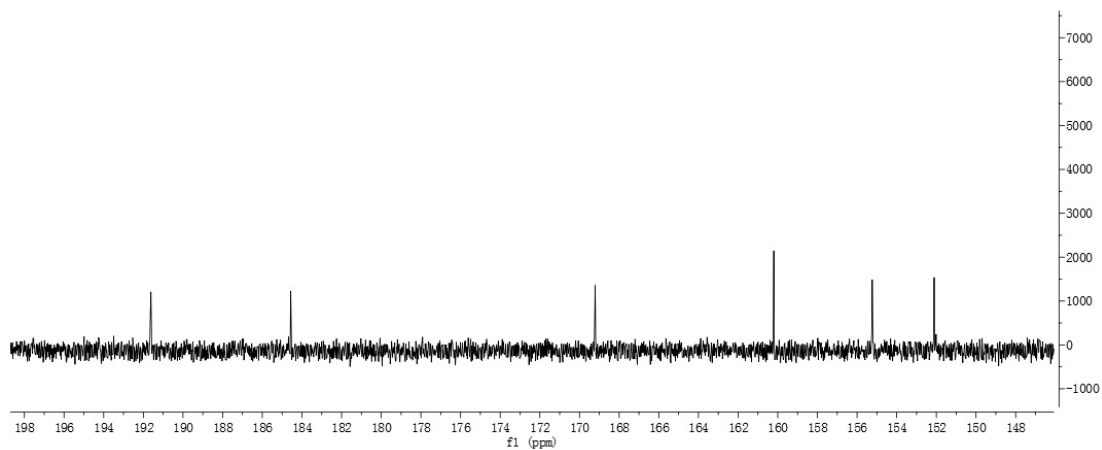


Figure S7. 13C-NMR of *N*-acetyl-*N*-demethylmayamycin (1).

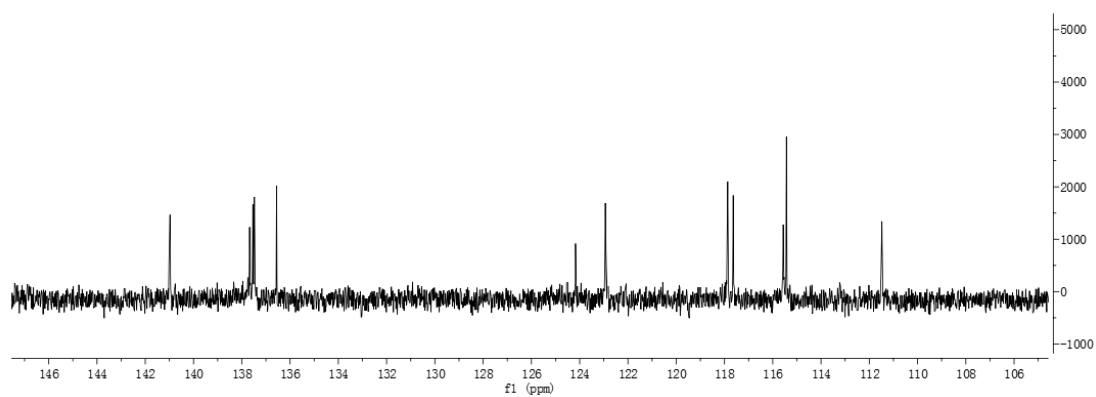


Figure S8. 13C-NMR of *N*-acetyl-*N*-demethylmayamycin (1).

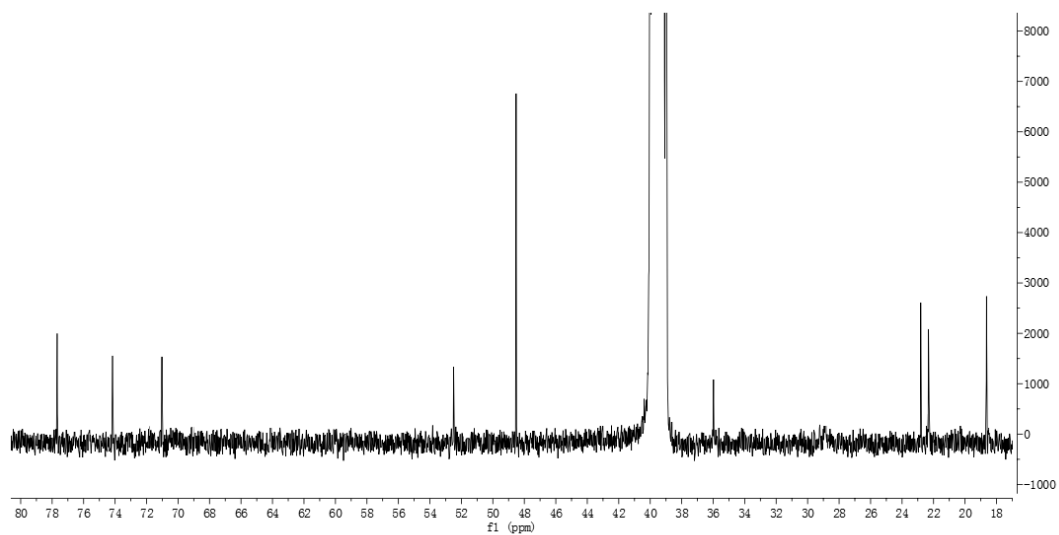


Figure S9. 13C-NMR of *N*-acetyl-*N*-demethylmayamycin (1).

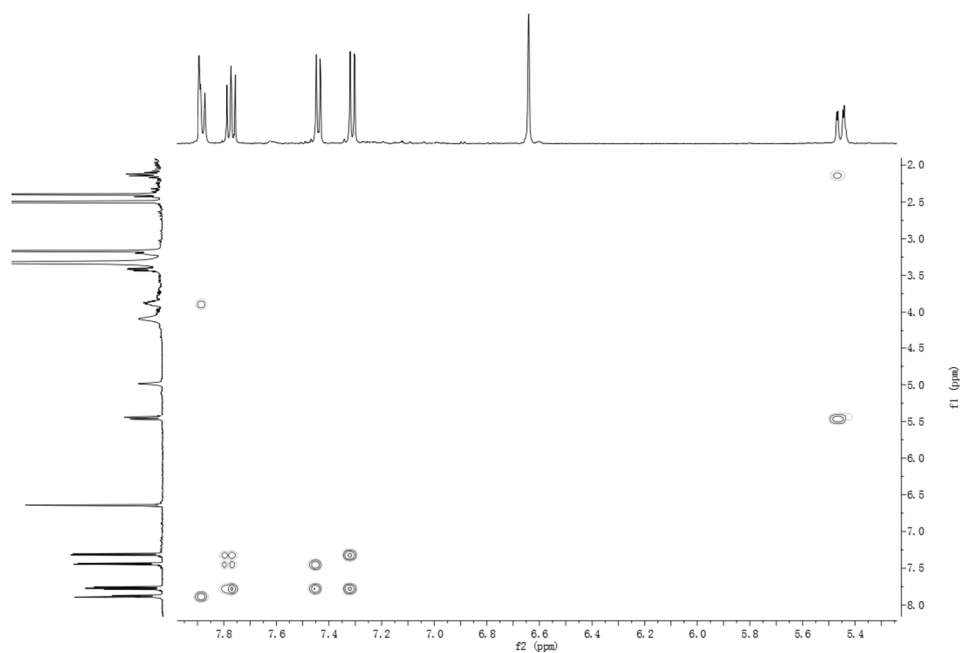


Figure S10. 1H-1H COSY Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

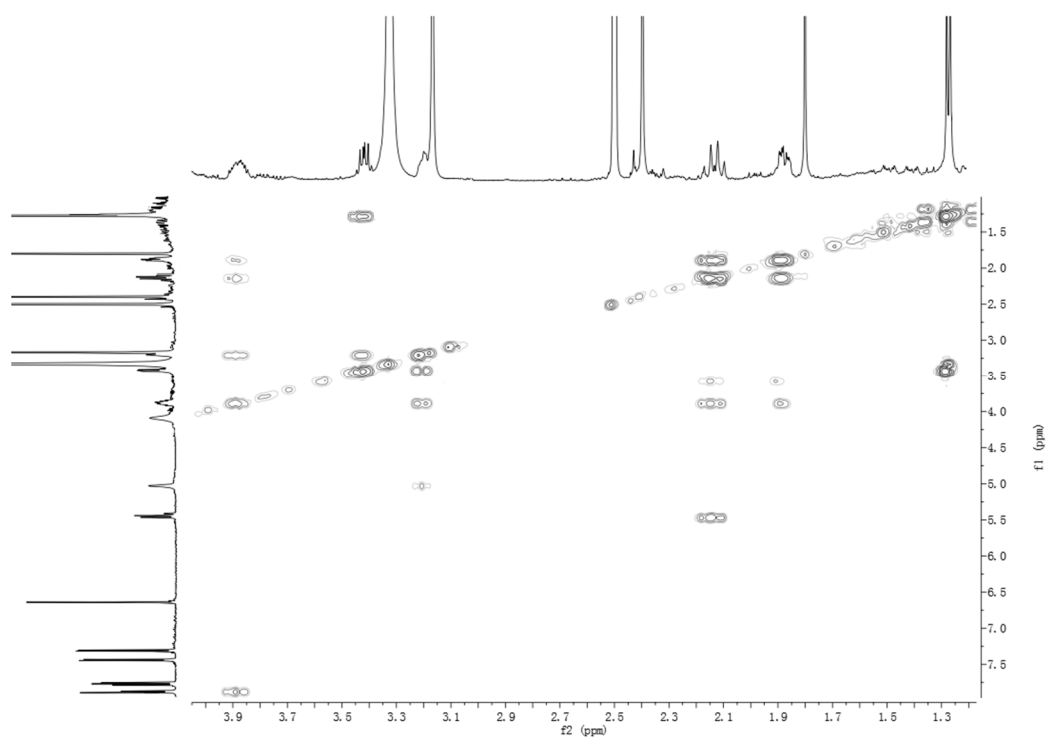


Figure S11. 1H-1H COSY Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

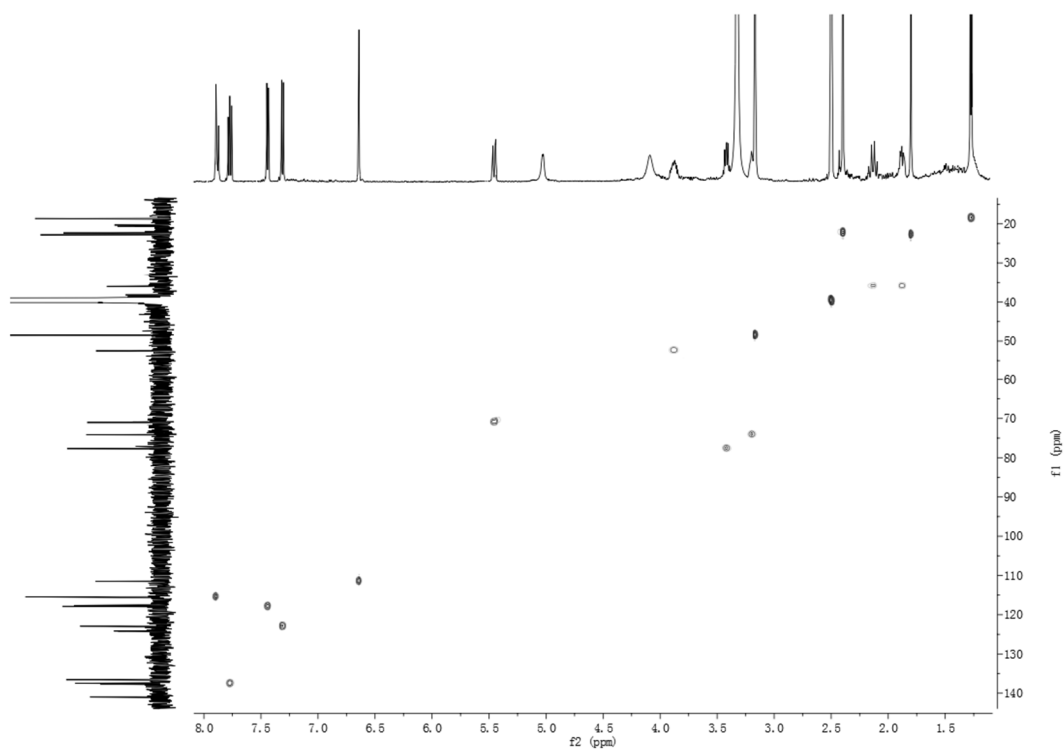


Figure S12. HSQC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

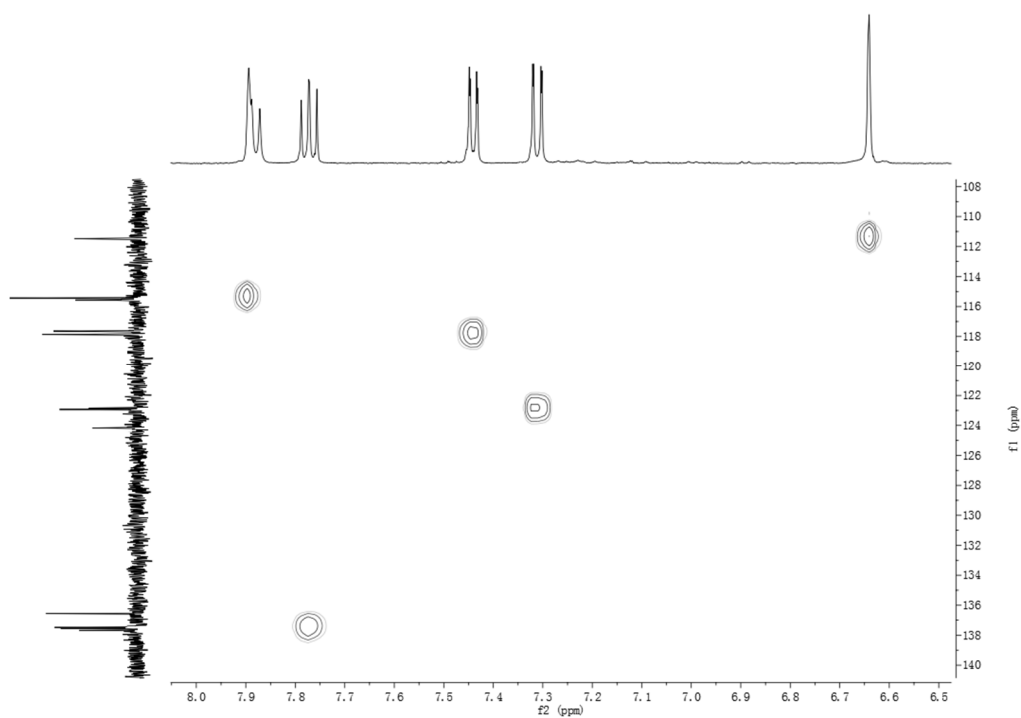


Figure S13. HSQC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

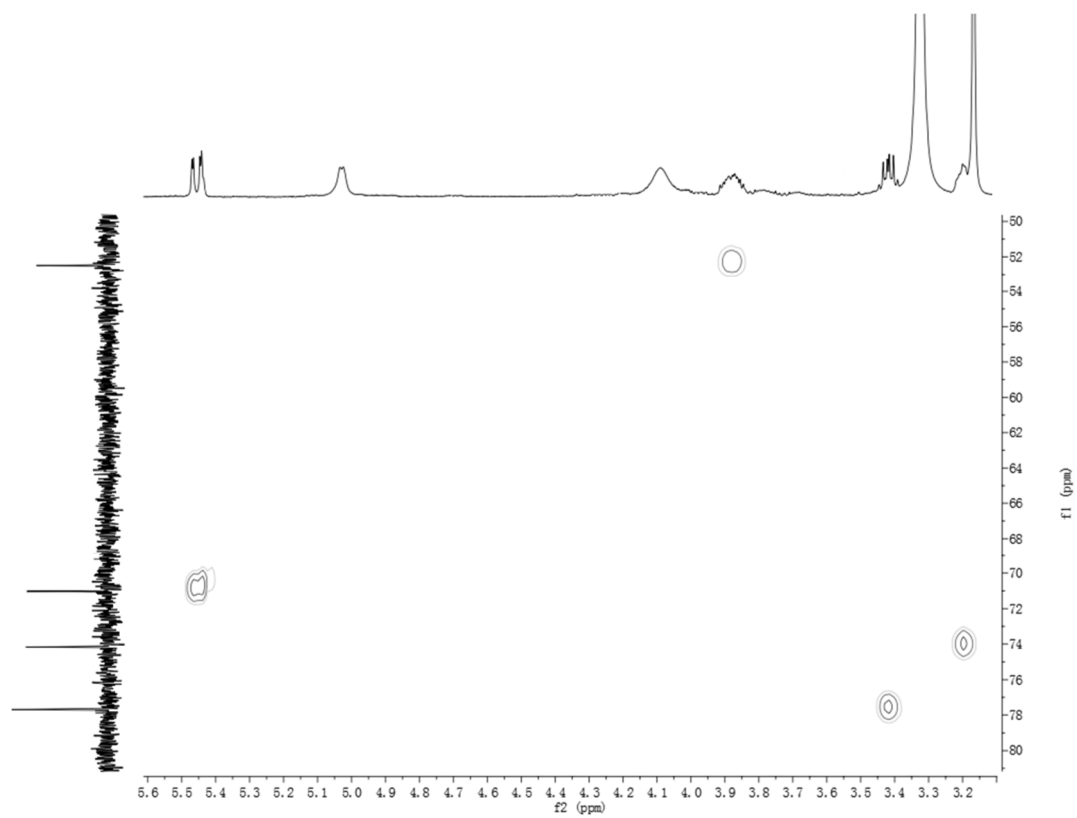


Figure S14. HSQC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

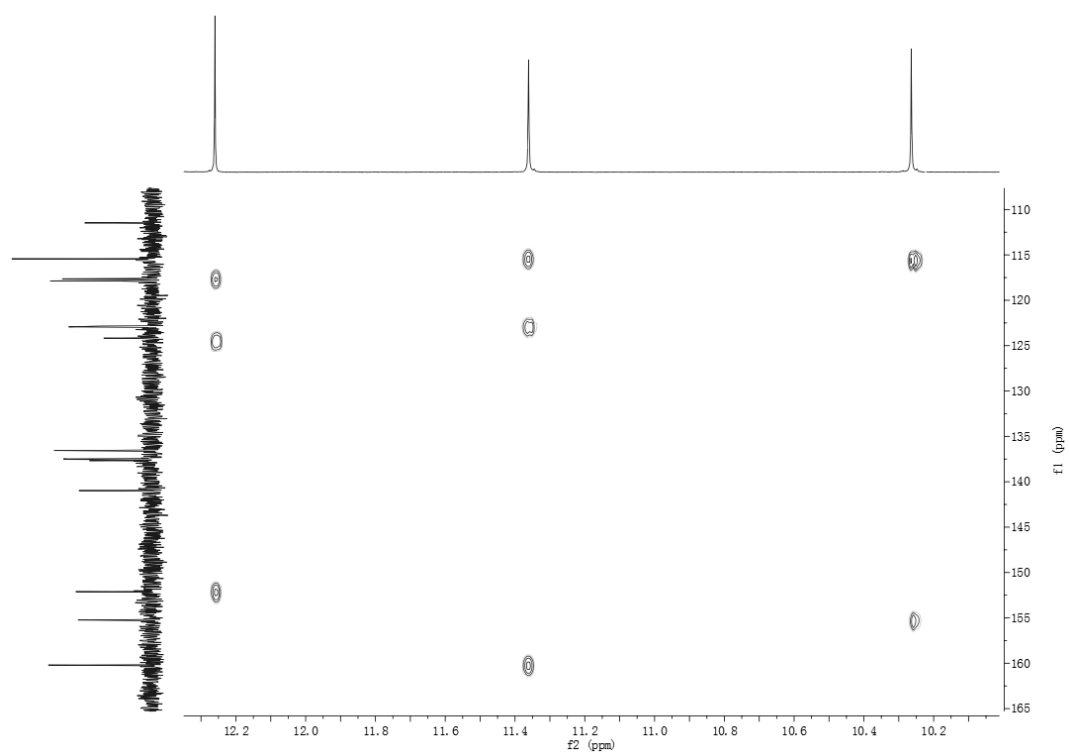


Figure S15. HMBC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

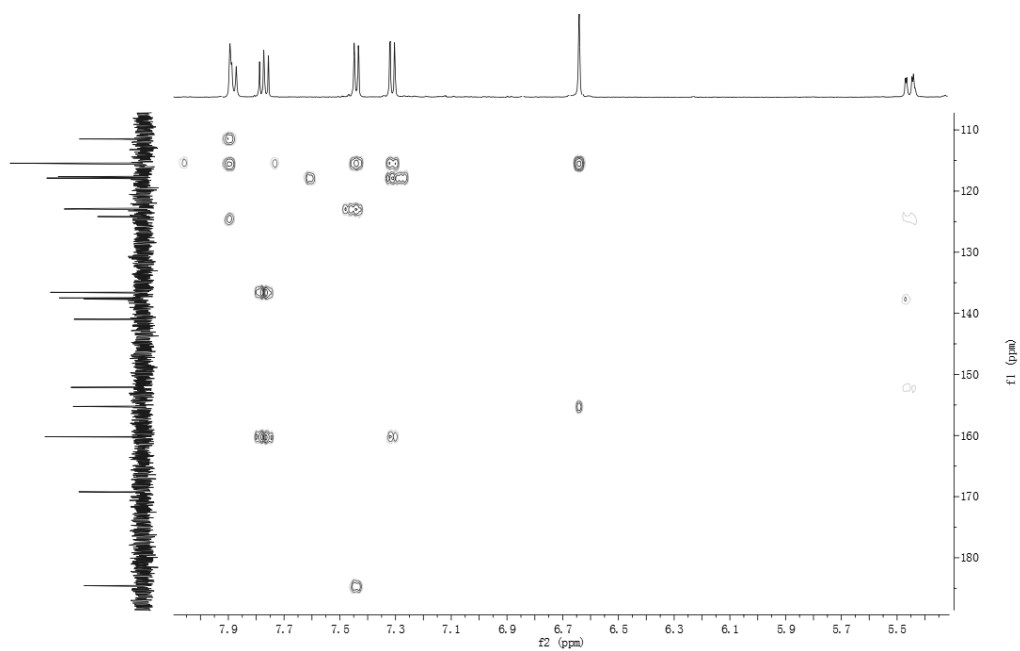


Figure S16. HMBC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

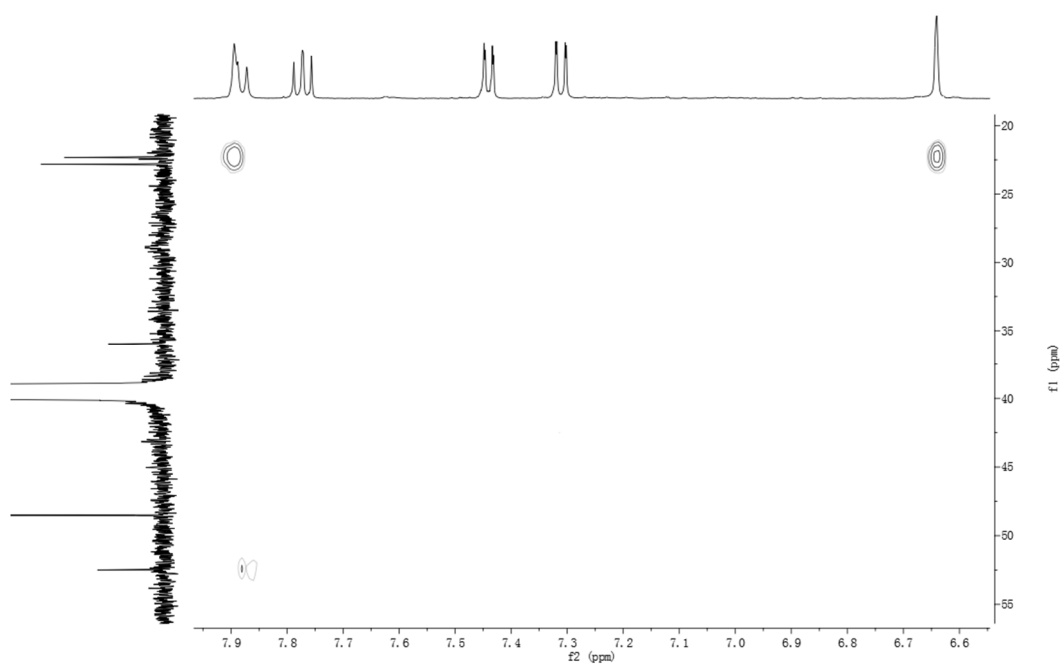


Figure S17. HMBC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

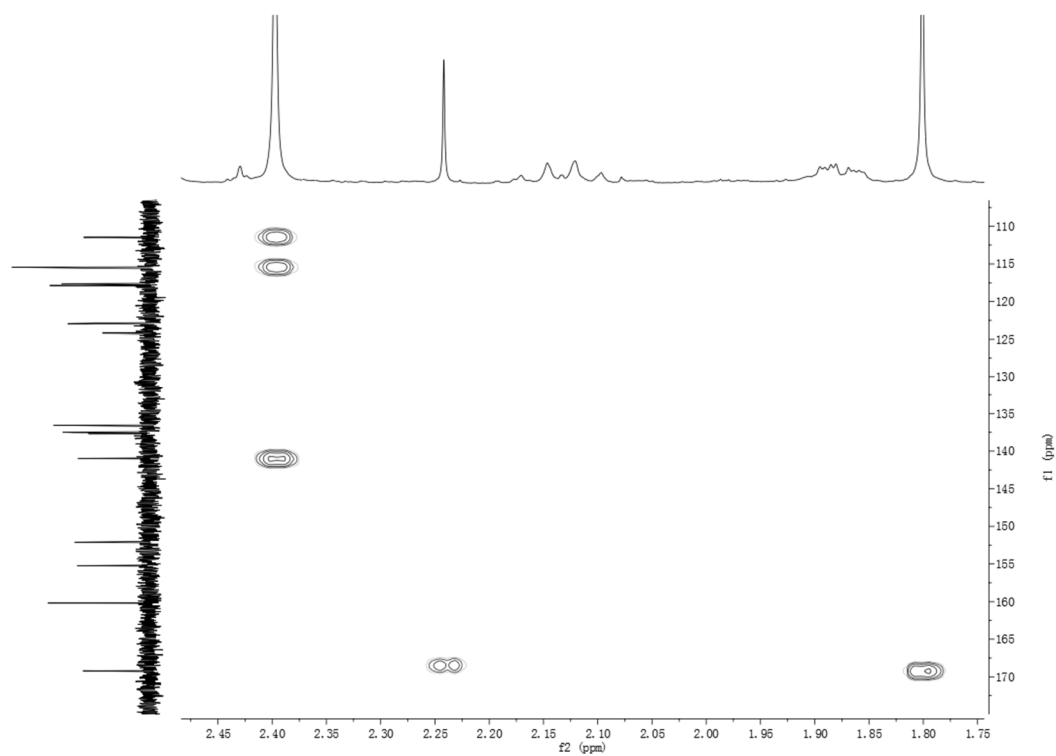


Figure S18. HMBC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

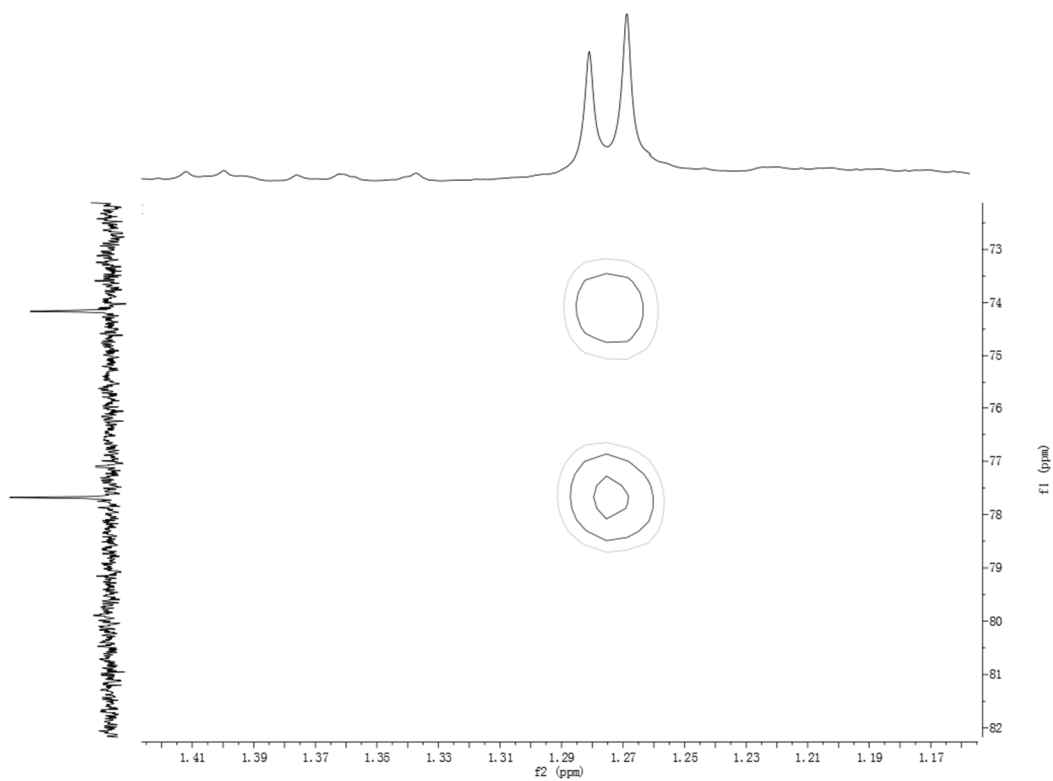


Figure S19. HMBC Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

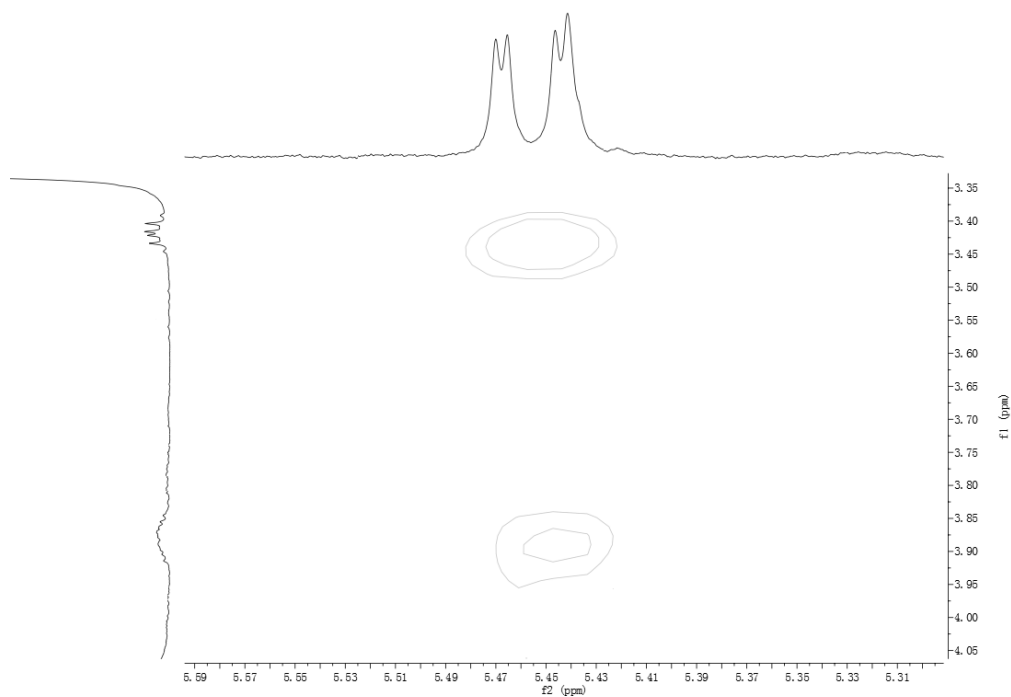


Figure S20. NOESY Spectrum of *N*-acetyl-*N*-demethylmayamycin (1).

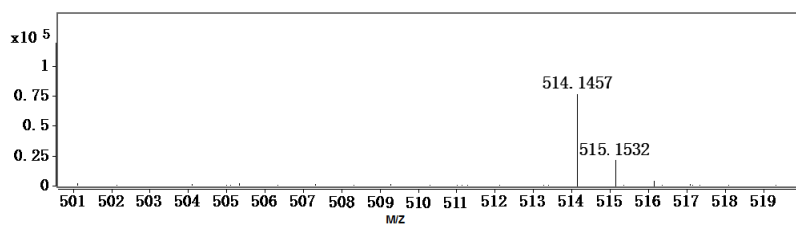


Figure S21. HRESIMS Data of *N*-acetyl-*N*-demethylmayamycin (1).

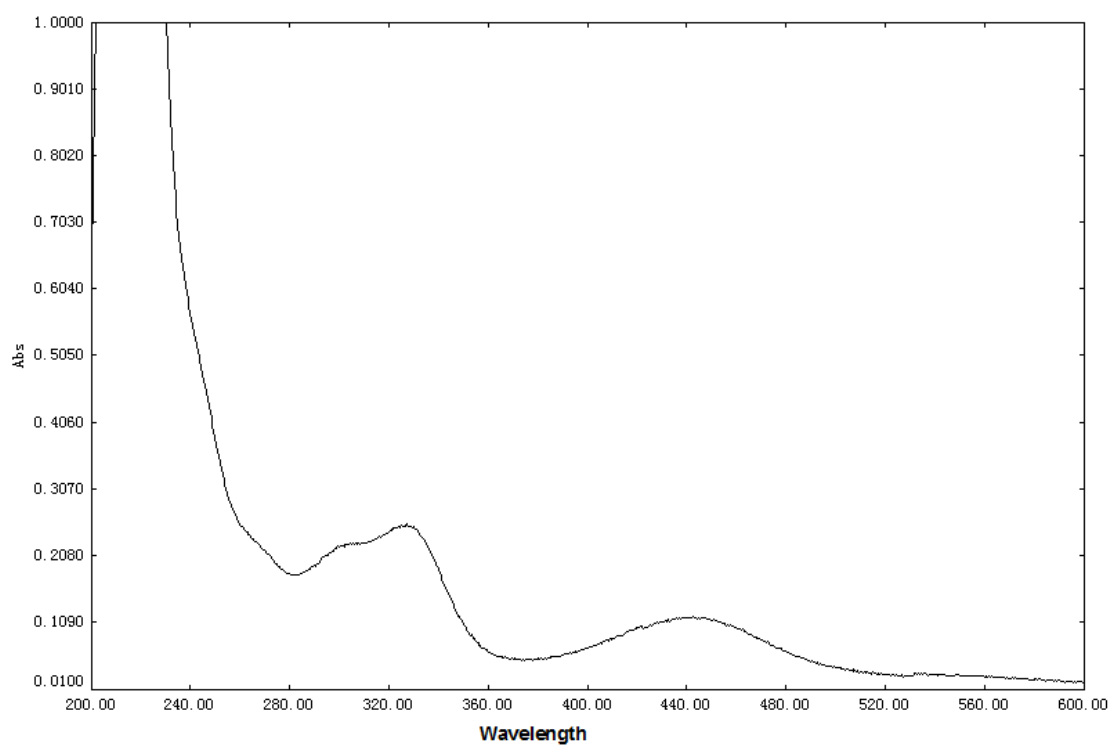


Figure S22. UV spectrum of Streptoanthraquinone A (2).

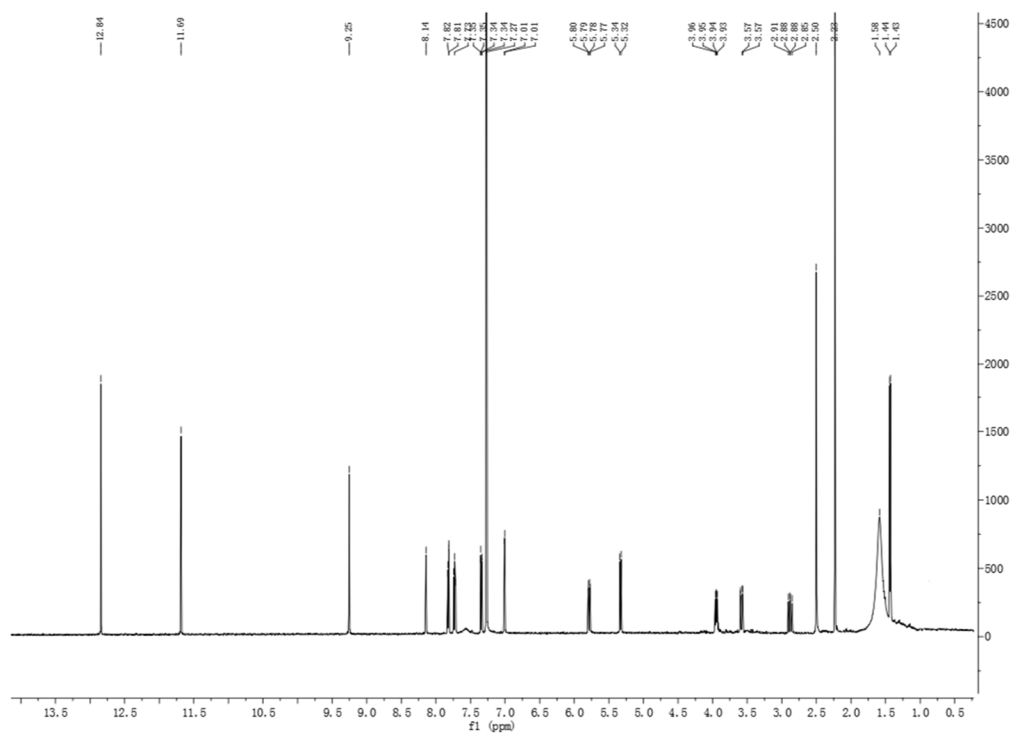


Figure S23. ¹H-NMR of Streptoanthraquinone A (2).

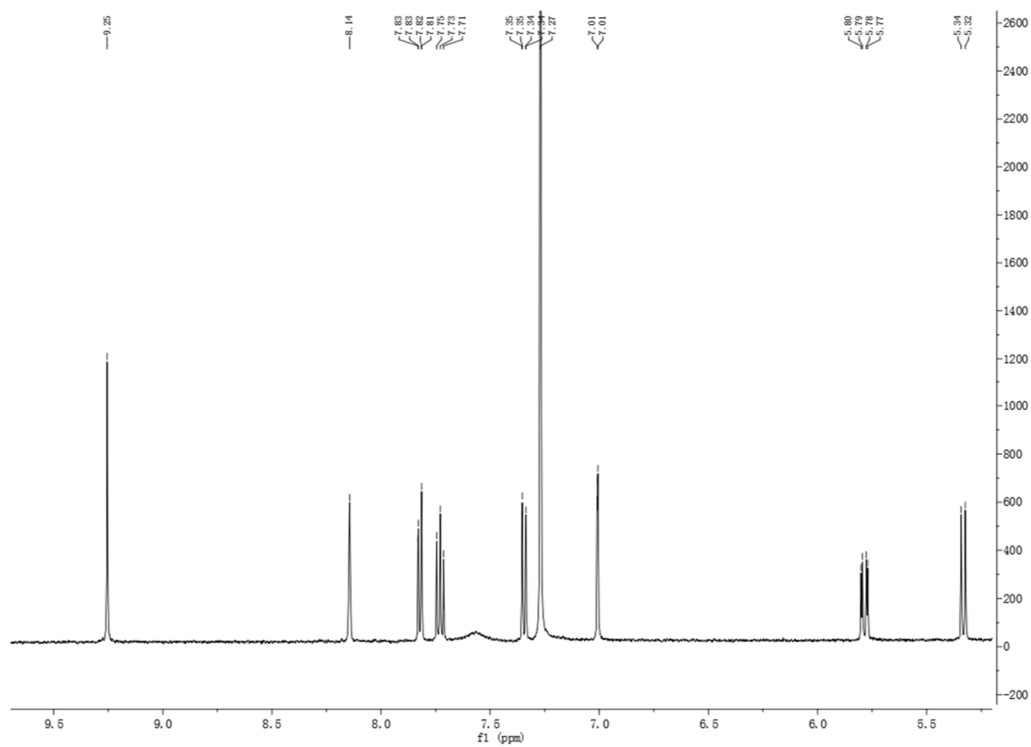


Figure S24. ¹H-NMR of Streptoanthraquinone A (2).

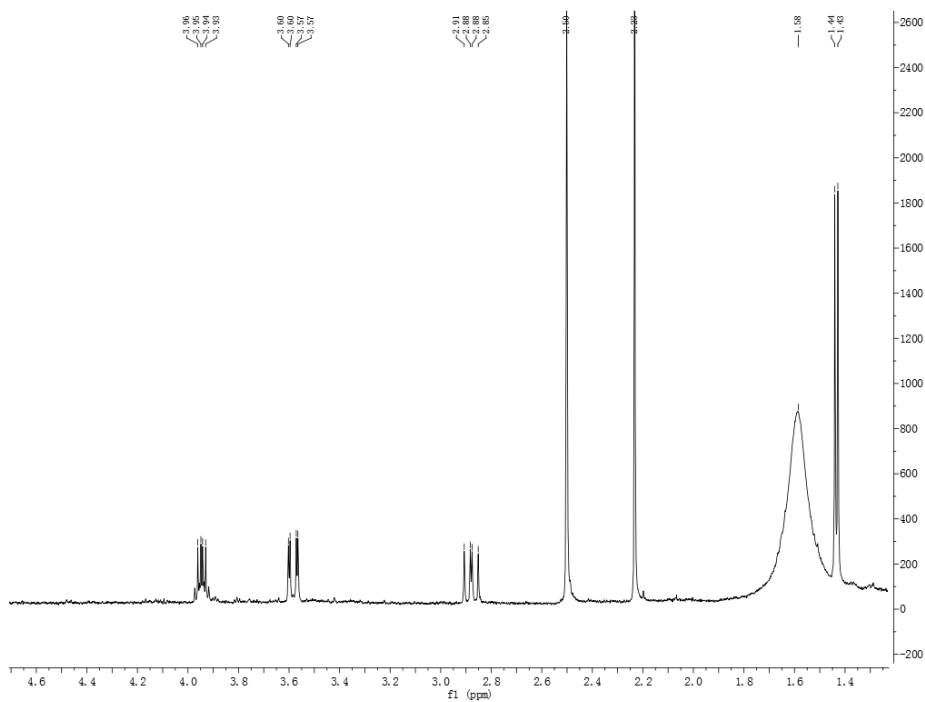


Figure S25. ¹H-NMR Spectrum of Streptoanthraquinone A (2).

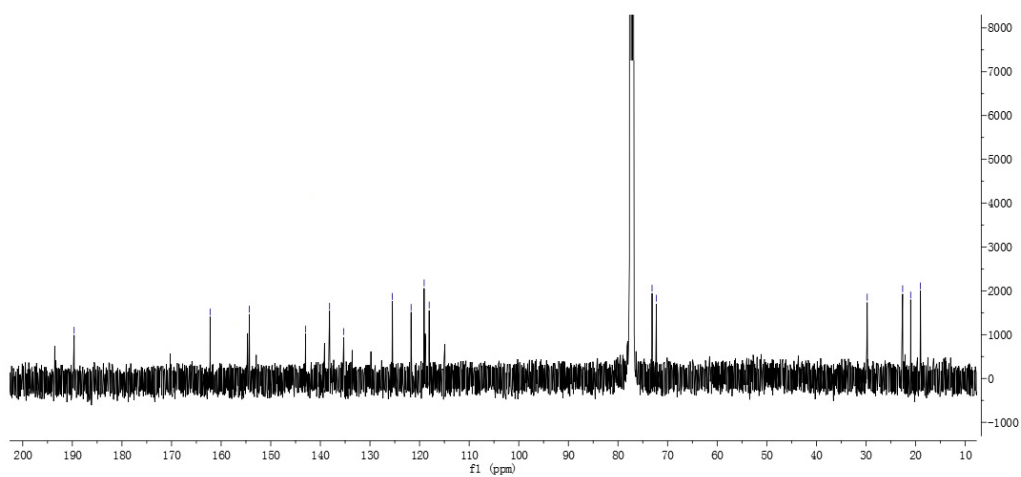


Figure S26. ¹³C-NMR Spectrum of Streptoanthraquinone A (2).

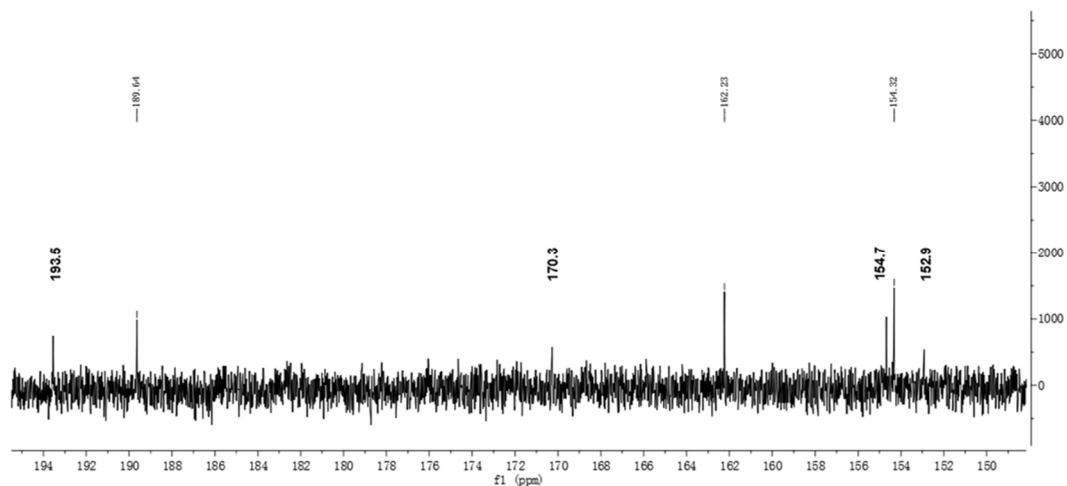


Figure S27. 13C-NMR Spectrum of Streptoanthraquinone A (2).

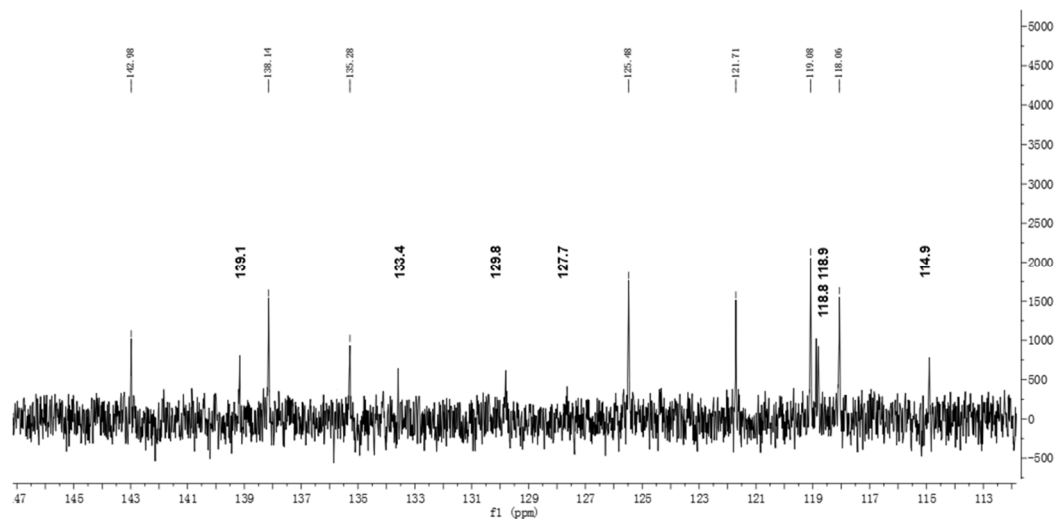


Figure S28. 13C-NMR Spectrum of Streptoanthraquinone A (2).

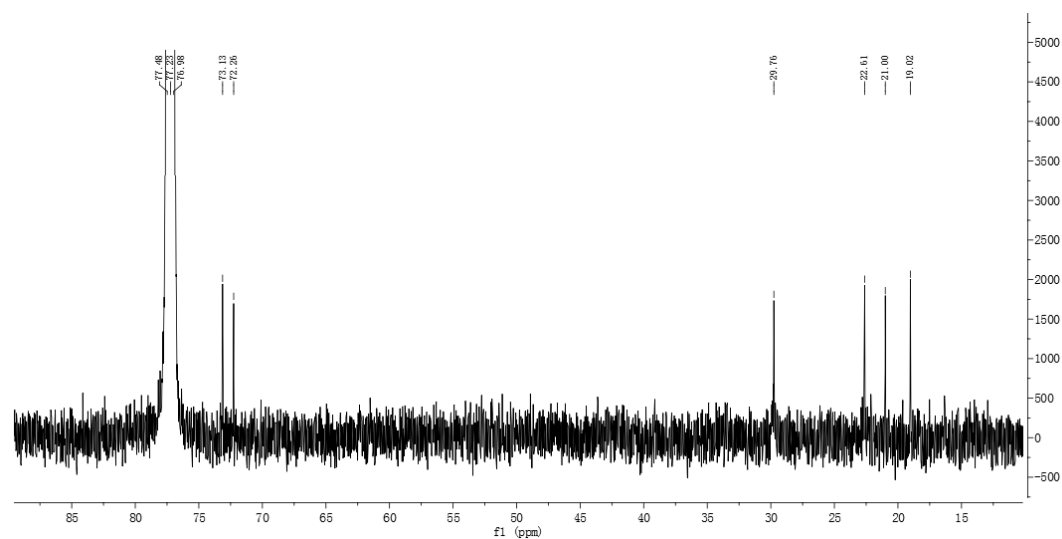


Figure S29. 13C-NMR of Streptoanthraquinone A (2).

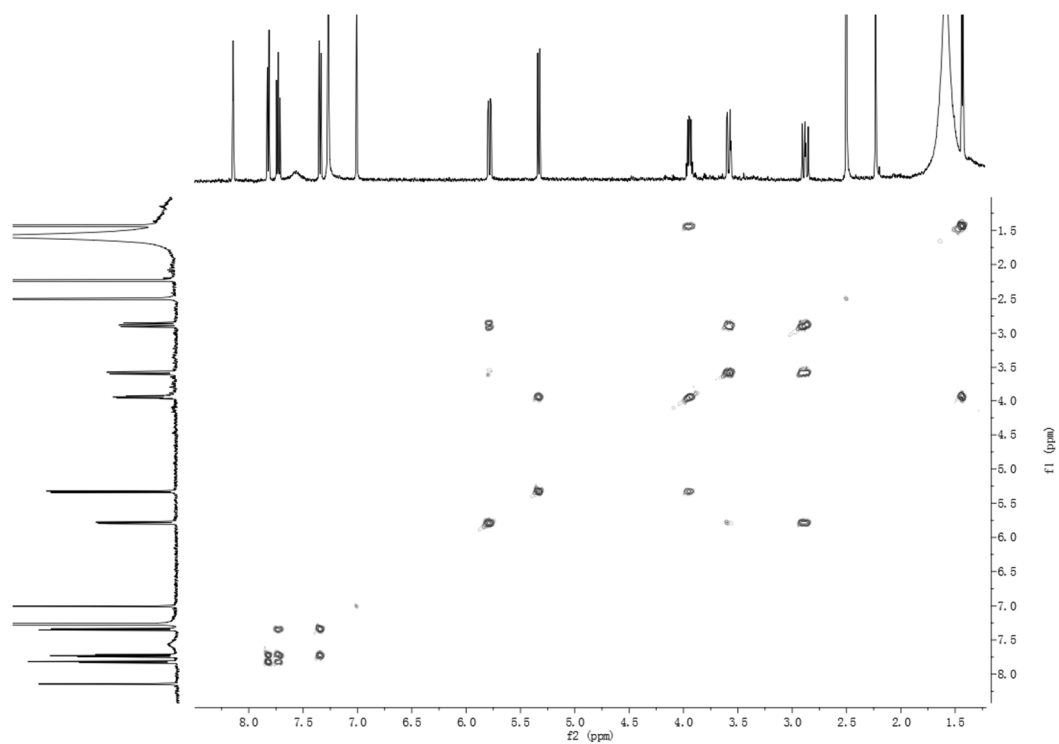


Figure S30. 1H-1H COSY of Streptoanthraquinone A (2).

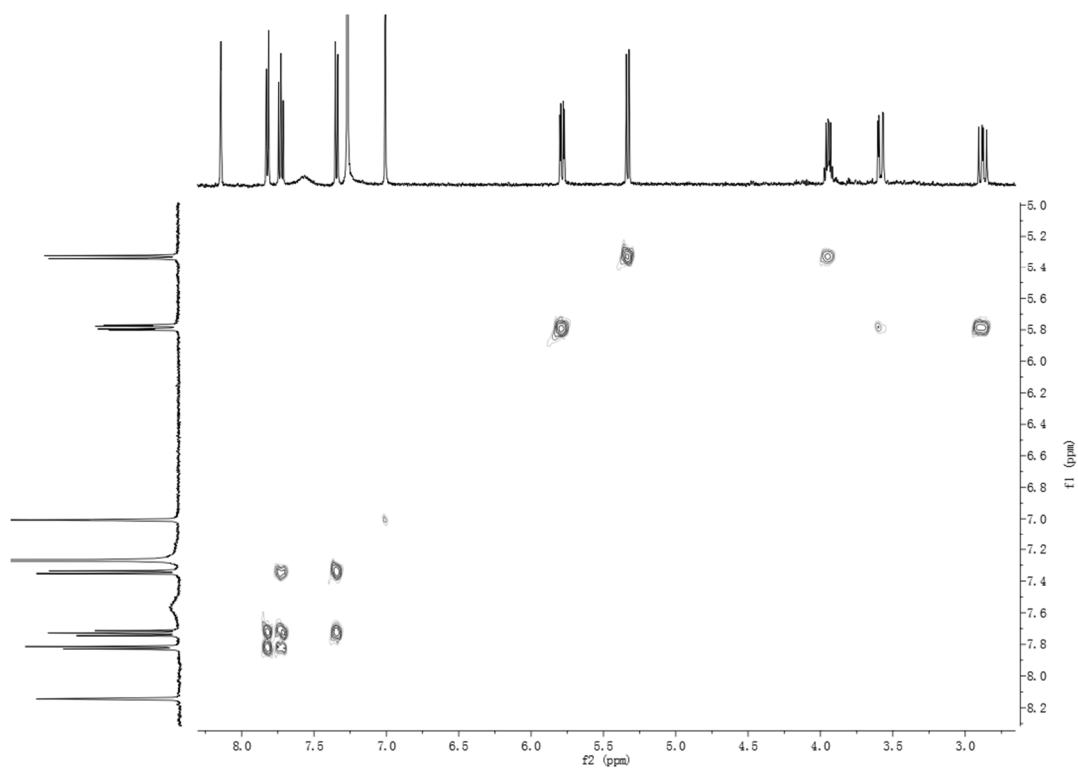


Figure S31. 1H-1H COSY of Streptoanthraquinone A (2).

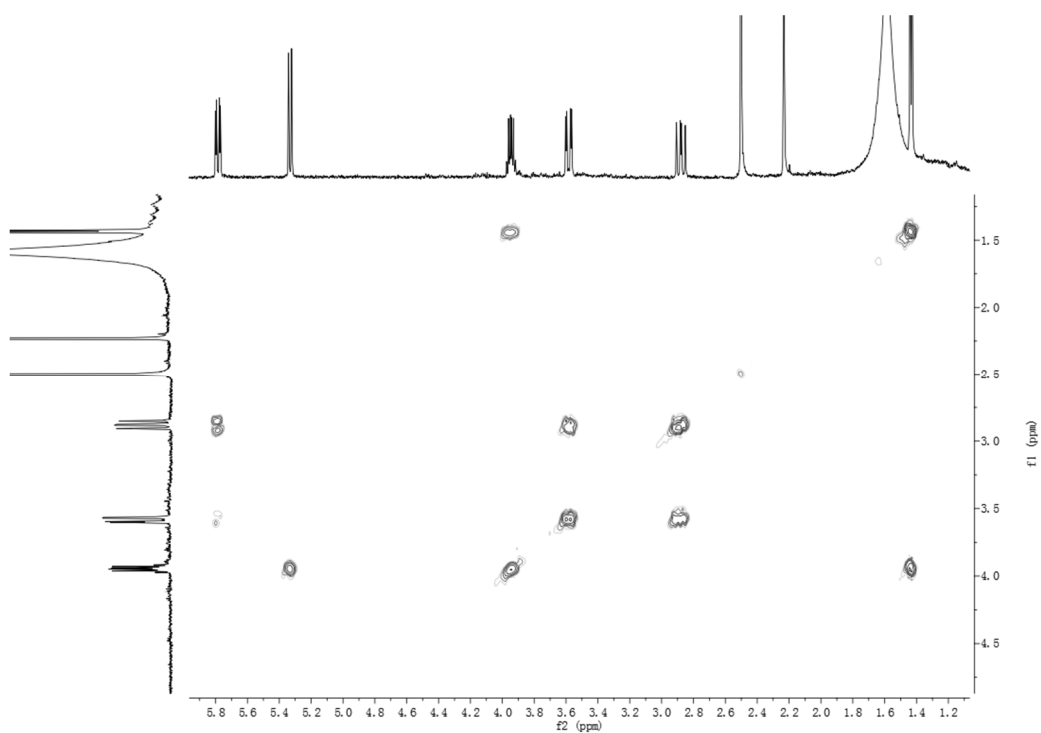


Figure S32. 1H-1H COSY of Streptoanthraquinone A (2).

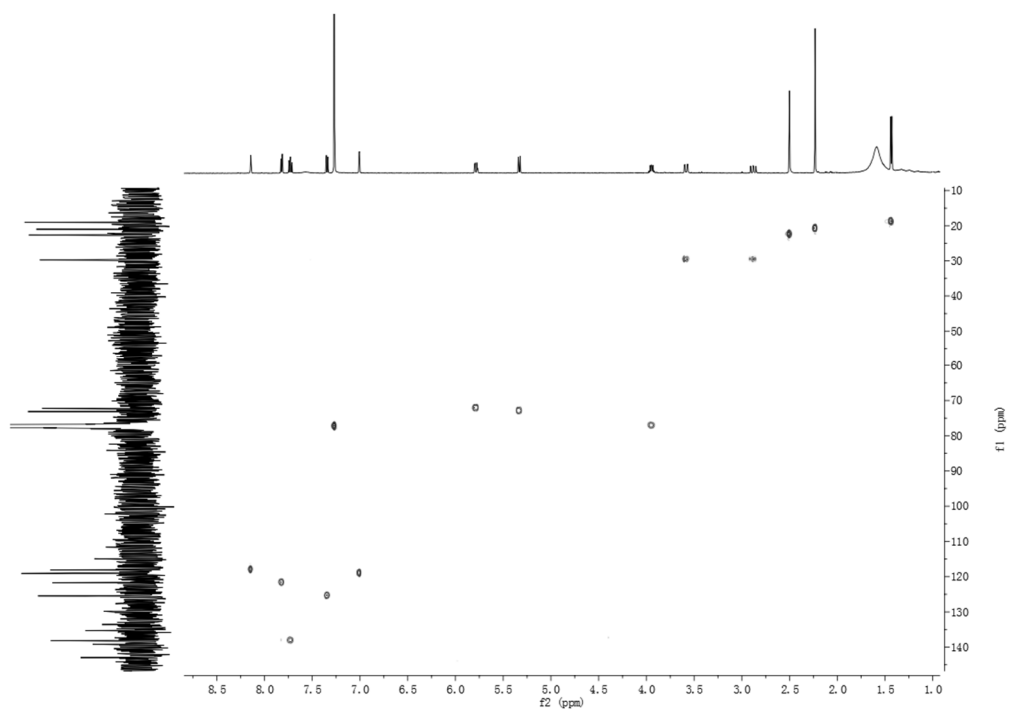


Figure S33. HSQC spectrum of Streptoanthraquinone A (2).

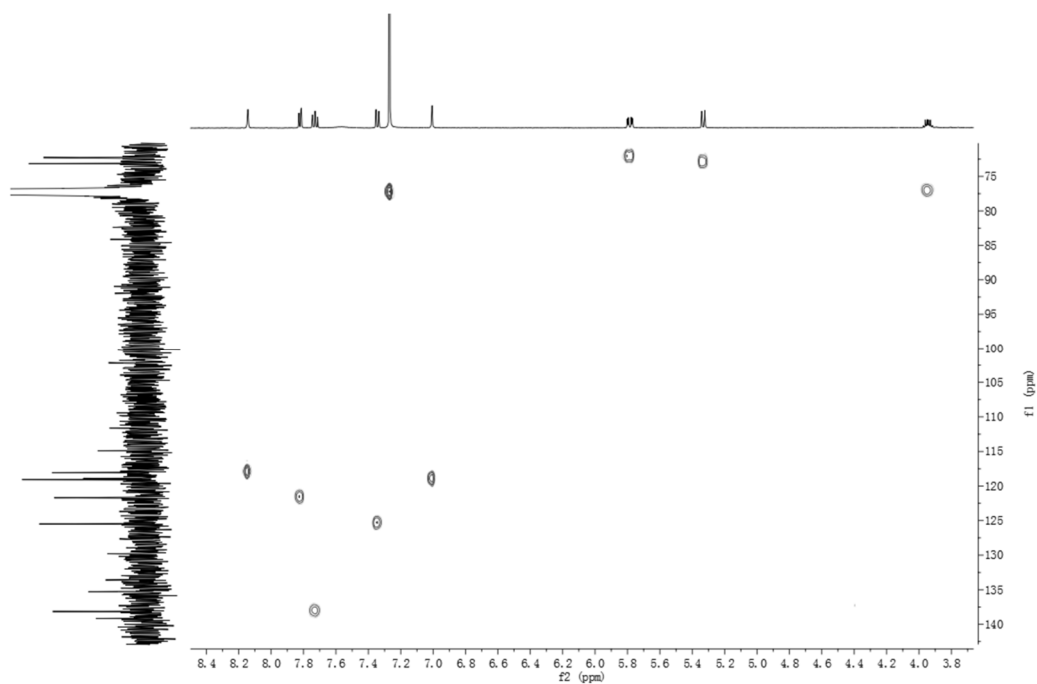


Figure S34. HSQC spectrum of Streptoanthraquinone A (2).

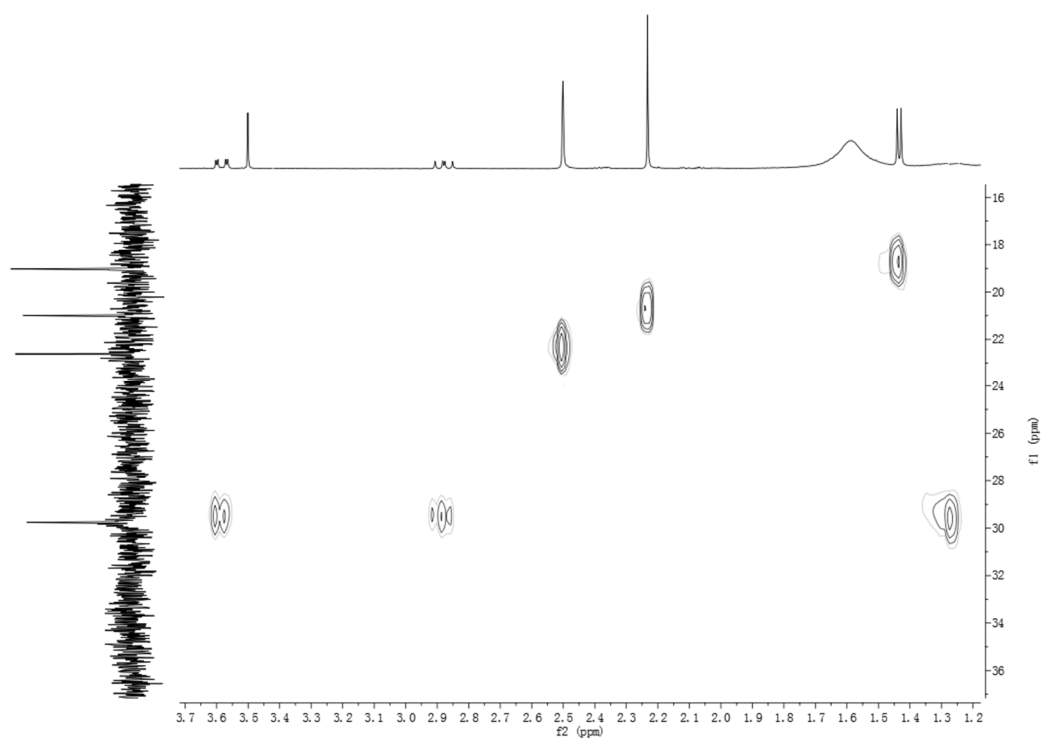


Figure S35. HSQC spectrum of Streptoanthraquinone A (2).

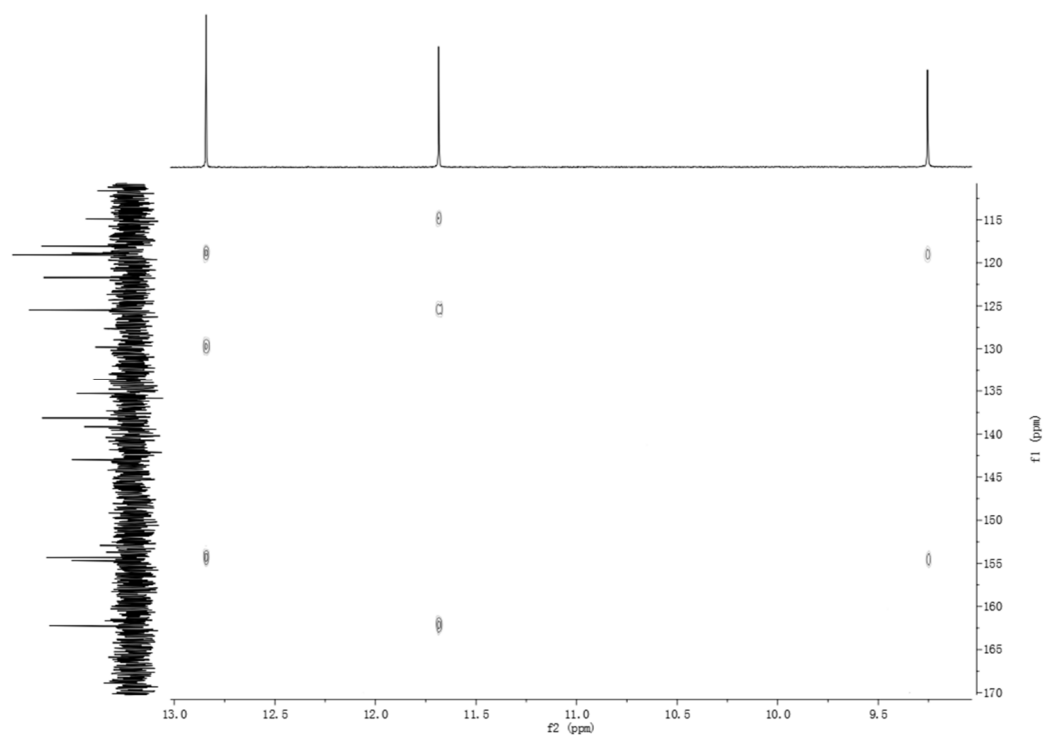


Figure S36. HMBC spectrum of Streptoanthraquinone A (2).

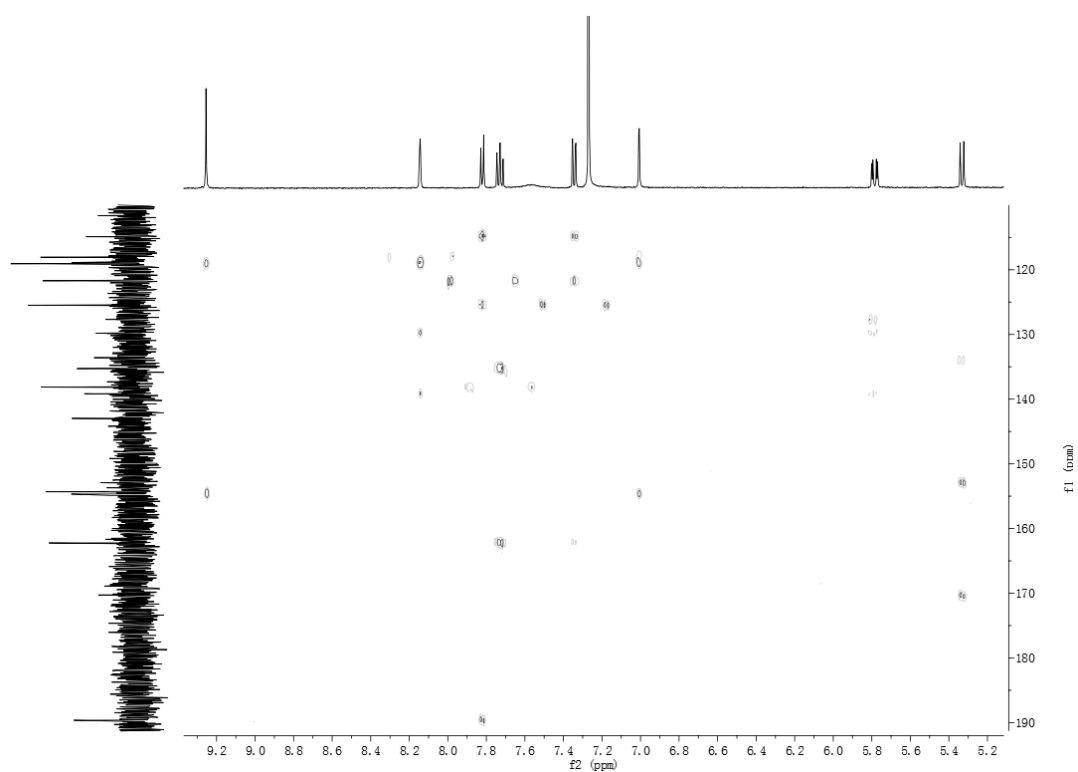


Figure S37. HMBC spectrum of Streptoanthraquinone A (2).

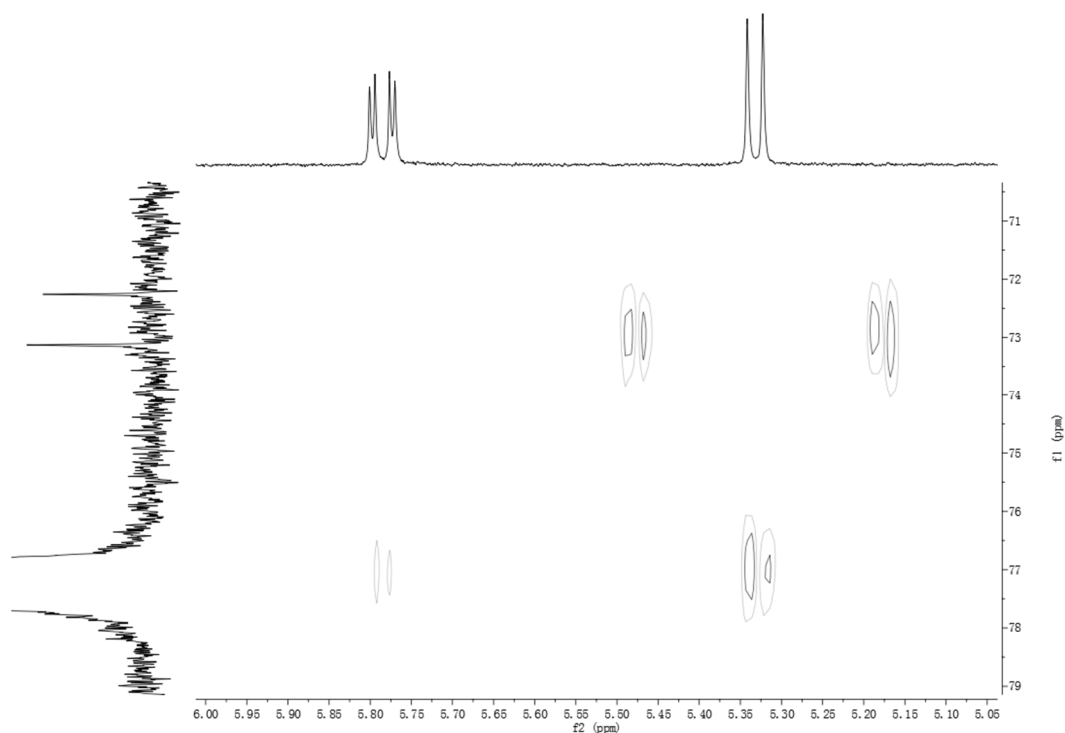


Figure S38. HMBC Spectrum of Streptoanthraquinone A (2).

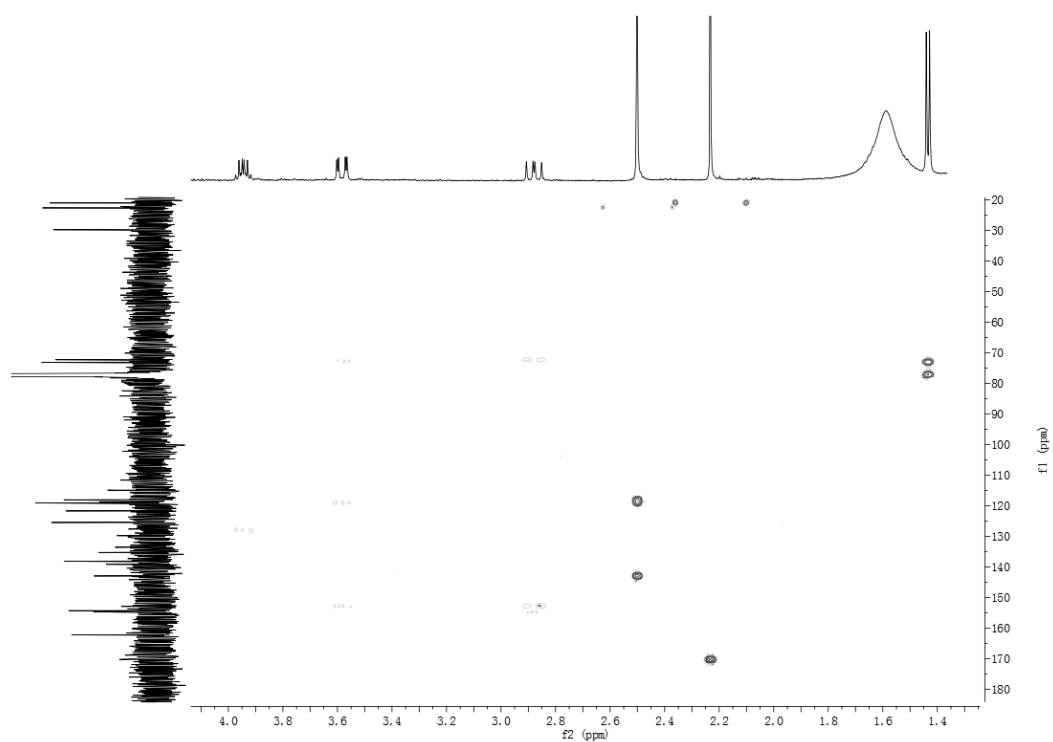


Figure S39. HMBC Spectrum of Streptoanthraquinone A (2).

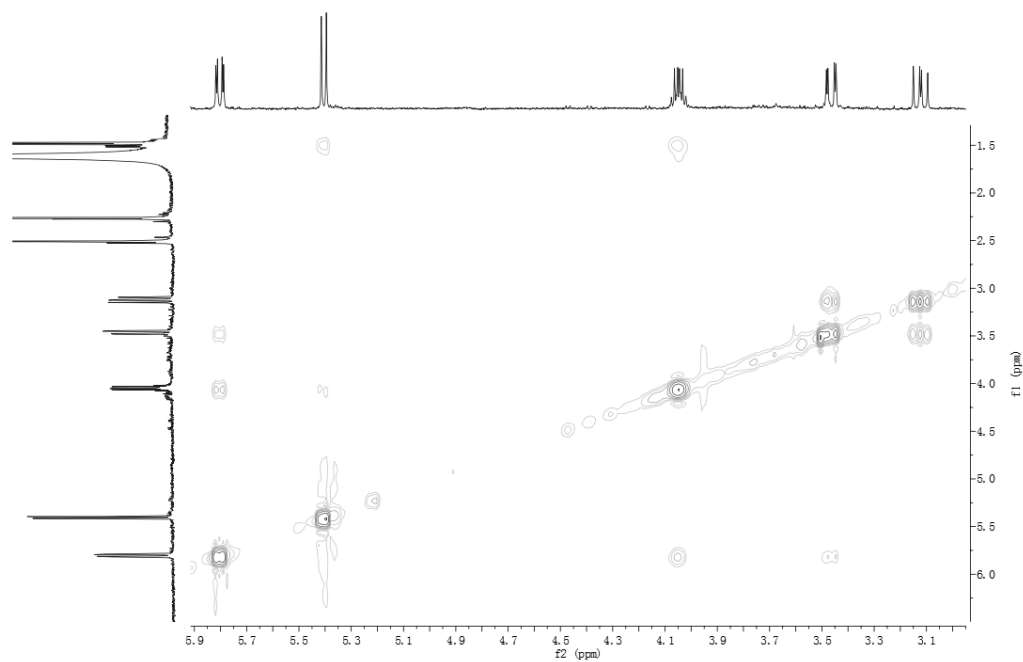


Figure S40. NOESY Spectrum of Streptoanthraquinone A (2).

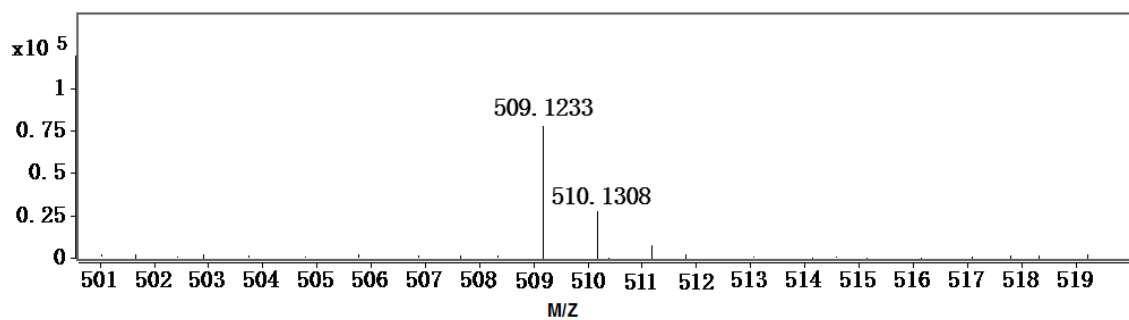


Figure S41. HRESIMS Spectrum of Streptoanthraquinone A (2).

TGCAGTCGAACGATGAAGCCCTTCGGGGTGGATTAGTGGCGAACGGGTGAGTAACACGT
GGGCAATCTGCCCTTCACTCTGGGACAAGCCCTGGAAACGGGGTCTAATACCGGATAACA
CTCTGTCCCGCATGGGACGGGGTTGAAAGCTCCGGCGGTGAAGGATGAGCCCGCGGCCT
ATCAGCTTGTGGTGGGGTAATGGCCTACCAAGGCGACGACGGGTAGCCGGCCTGAGAG
GGCGACCGGCCACACTGGGACTGAGACACGGCCCAGACTCCTACGGGAGGCAGCAGTGG
GGAATATTGCACAATGGGCGAAAGCCTGATGCAGCGACGCCGCGTGAGGGATGACGGCC
TTCGGGTGTAAACCTCTTTCAGCAGGGAAGAAGCGAAAGTGACGGTACCTGCAGAAGA
AGCGCC-GGCTAACTACGTGCCAGCAGCCGCGGTAATACGTAGGGCGCAAGCGTTGTCCG
GAATTATTGGGCGTAAAGAGCTCGTAGGCGGCTTGTACGTCCGATGTGAAAGCCCGGG
GCTTAACCCCGGGTCTGCATTTCGATACGGGCTAGCTAGAGTGTGGTAGGGGAGATCGGAA
TTCCTGGTGTAGCGGTGAAATGCGCAGATATCAGGAGGAACACCGGTGGCGAAGGCGGA
TCTCTGGGCCATTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGGATTAGATA
CCCTGGTAGTCCACGCCGTAACGTTGGGAACTAGGTGTTGGCGACATTCCACGTCTGTCG
GTGCCCGAGCTAACGCATTAAGTTCCCCGCCTGGGGAGTACGGCCGCAAGGCTAAAACCTC
AAAGGAATTGACGGGGGGCCCGCACAAAGCAGCGGAGCATGTGGCTTAATTCGACGCAACG
CGAAGAACCTTACCAAGGCTTGACATATACCGGAAAGCATCAGAGATGGTGCSCCCTTG
TGGTCGGTATACAGGTGGTGCATGG-CTGTCTCAGCTCGTGTCTGTGAGATGTTGGGTAA
GTCCCACAACGAGCGCAACCCTTGTTCTGTGTTGCCAGCATGCCCTTCGGGG-TGATGGGG
ACTCACAGGAGACTGCCGGGGTCAACTCGGAGGAAGGTGGGGACGACGTCAAGTCATCA
TGCCCCATTATGTCTTGGGCTGCACACGTGCTACAATGGCCGGTACAATGAGCTGCGATGC
CGCGAGGCGGAGCGAATCTCAAAAAGCCGGTCTCAGTTCGGATTGGGGTCTGCAACTCG
ACCCCATGAAGTCGGAGTTGCTAGTAATCGCAGATCAGCATTGCTGCGGTGAATACGTTCC
CCGGGCCTGTACACACCGCCCGTACGTCACGAAAGTCGGTAACACCCGAAGCCGGTGG
CCCAACCC

Figure S42. 16S rDNA sequence of *Streptomyces* sp. 182SMLY.

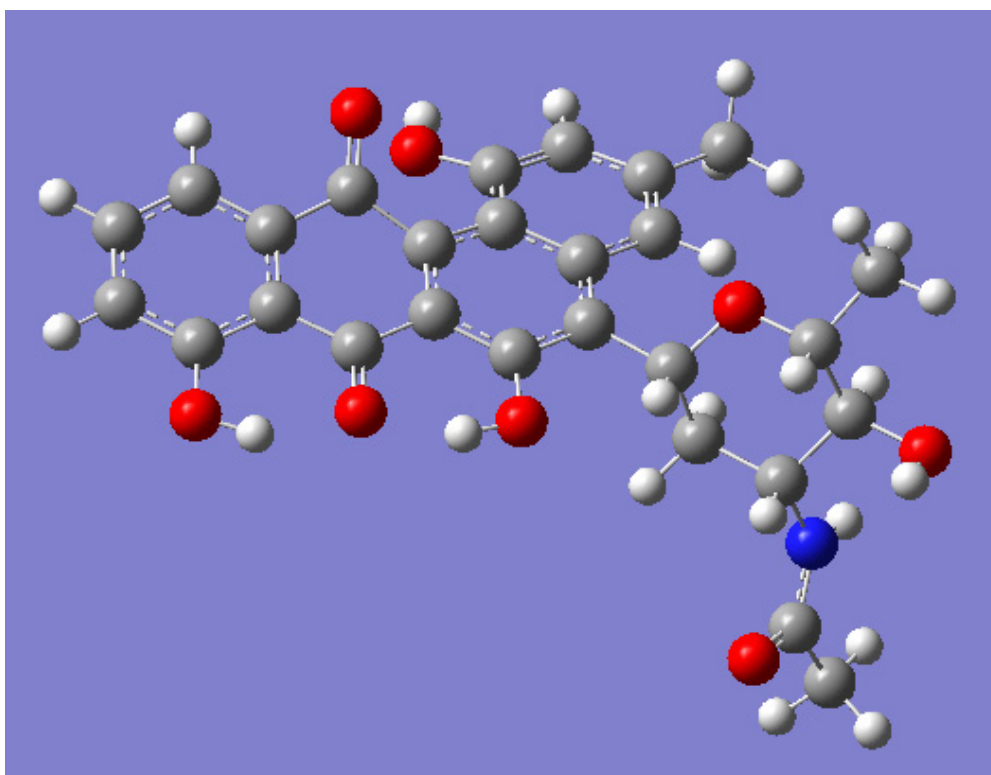


Figure S43. The Optimized Geometry of Conformer 1 of (1'R, 3'R, 4'S, 5'R)-1.

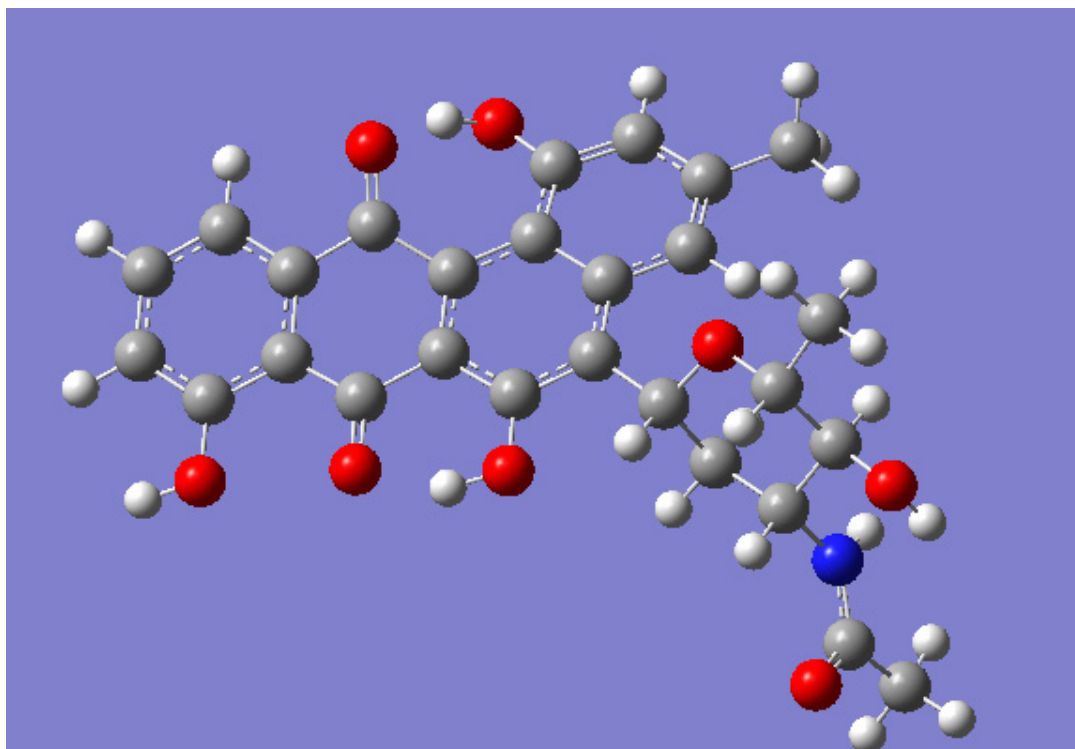


Figure S44. The Optimized Geometry of Conformer 2 of (1'R, 3'R, 4'S, 5'R)-1.

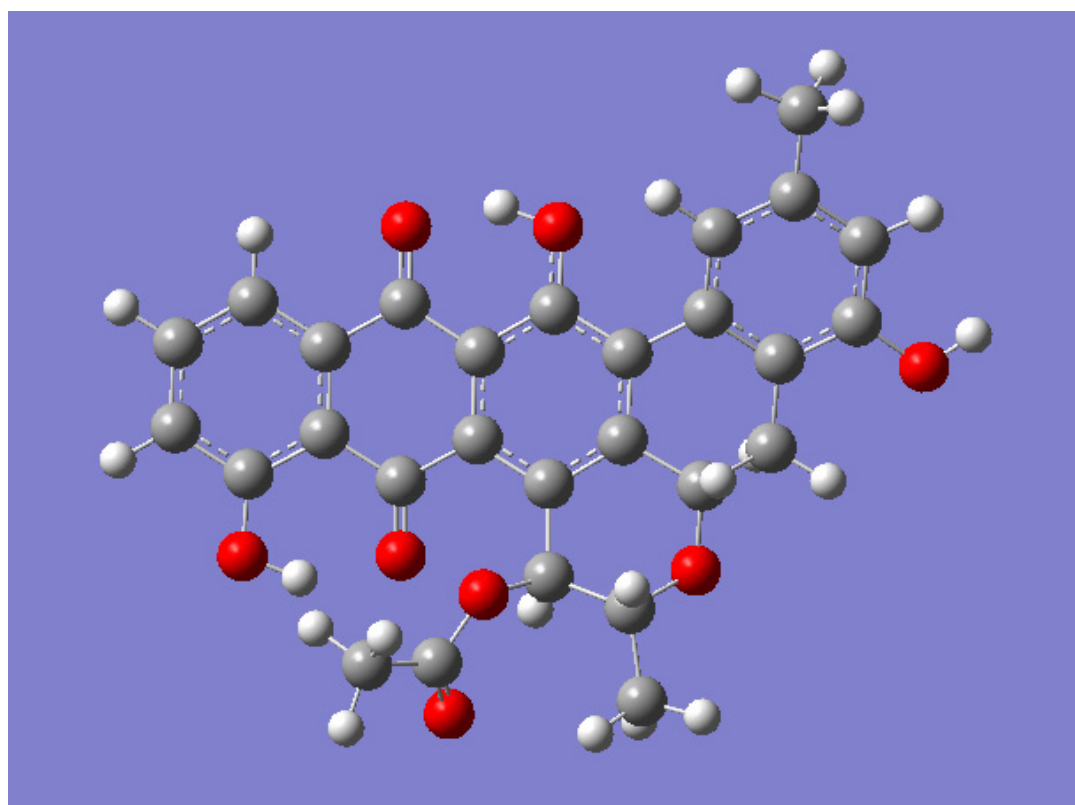


Figure S45. The Optimized Geometry of Conformer 1 of (6'S, 16'R, 17'R)-2.

Table S1. Sequences producing significant alignments.

| Accession | Description | Max Score | Total Score | Query Coverage | Evalue | Ident |
|-------------|---|-----------|-------------|----------------|--------|-------|
| KF981731.1 | <i>Streptomyces griseus</i> strain CB00830 16S ribosomal RNA gene | 2542 | 2542 | 100% | 0.0 | 100% |
| HQ6074.11.1 | <i>Streptomyces pluricolorescens</i> strain 999 16S ribosomal RNA gene | 2542 | 2542 | 100% | 0.0 | 100% |
| FJ792544.1 | <i>Streptomyces tricolor</i> strain fc3055 16S ribosomal RNA gene | 2542 | 2542 | 100% | 0.0 | 100% |
| EU7814.91.1 | <i>Streptomyces sporovirgulis</i> strain L0801 16S ribosomal RNA gene | 2542 | 2542 | 100% | 0.0 | 100% |
| EU257232.1 | <i>Streptomyces</i> sp. A15Ydz-AH 16S ribosomal RNA gene | 2542 | 2542 | 100% | 0.0 | 100% |
| EU119184.1 | <i>Streptomyces</i> sp. HBUM74775 16S ribosomal RNA gene | 2542 | 2542 | 100% | 0.0 | 100% |
| JQ654447.1 | <i>Streptomyces sporovirgulis</i> strain TGNBSA5 16S ribosomal RNA gene | 2540 | 2540 | 99% | 0.0 | 100% |

Table S2. Optimized Z-Matrixes of Conformer 1 of (1'R, 3'R, 4'S, 5'R)-1. Standard orientation.

| Center Number | Atomic Number | Atomic Type | Coordinates (Angstroms) | | |
|---------------|---------------|-------------|-------------------------|----------|----------|
| | | | X | Y | Z |
| 1 | 6 | 0 | -6.57339 | -2.12099 | -0.20611 |
| 2 | 6 | 0 | -5.22477 | -2.43785 | 0.036568 |
| 3 | 6 | 0 | -4.27011 | -1.3966 | 0.13893 |
| 4 | 6 | 0 | -4.70468 | -0.0561 | 0.032749 |
| 5 | 6 | 0 | -6.04365 | 0.247081 | -0.17531 |
| 6 | 6 | 0 | -6.97149 | -0.79675 | -0.31107 |
| 7 | 6 | 0 | -2.86044 | -1.68059 | 0.384568 |
| 8 | 6 | 0 | -3.71602 | 1.038823 | 0.209917 |
| 9 | 6 | 0 | -2.27202 | 0.717085 | 0.000235 |
| 10 | 6 | 0 | -1.87148 | -0.59079 | 0.319624 |
| 11 | 6 | 0 | -0.48253 | -0.86923 | 0.52819 |
| 12 | 6 | 0 | 0.472659 | 0.146009 | 0.478701 |
| 13 | 6 | 0 | 0.090126 | 1.444061 | 0.018538 |
| 14 | 6 | 0 | -1.29802 | 1.711967 | -0.28777 |
| 15 | 1 | 0 | -7.28637 | -2.9349 | -0.29543 |
| 16 | 1 | 0 | -6.35685 | 1.283296 | -0.24217 |
| 17 | 1 | 0 | -8.017 | -0.56637 | -0.49496 |
| 18 | 6 | 0 | -1.59956 | 2.946777 | -0.96337 |
| 19 | 6 | 0 | -0.63525 | 3.91536 | -1.13266 |
| 20 | 1 | 0 | -0.89969 | 4.839408 | -1.64285 |
| 21 | 6 | 0 | 0.699535 | 3.701631 | -0.71189 |
| 22 | 6 | 0 | 1.048479 | 2.479953 | -0.17527 |
| 23 | 1 | 0 | 2.075766 | 2.299137 | 0.105377 |
| 24 | 6 | 0 | 1.717171 | 4.796356 | -0.90129 |
| 25 | 1 | 0 | 1.451636 | 5.68382 | -0.31185 |
| 26 | 1 | 0 | 2.716837 | 4.472867 | -0.59592 |
| 27 | 1 | 0 | 1.764103 | 5.116145 | -1.95009 |
| 28 | 8 | 0 | -4.90258 | -3.73863 | 0.162969 |
| 29 | 1 | 0 | -3.93161 | -3.78506 | 0.353745 |
| 30 | 8 | 0 | -0.06274 | -2.12326 | 0.812715 |
| 31 | 1 | 0 | -0.86411 | -2.71054 | 0.816762 |

Table S2. Cont.

| Center Number | Atomic Number | Atomic Type | Coordinates (Angstroms) | | |
|---------------|---------------|-------------|-------------------------|----------|----------|
| | | | X | Y | Z |
| 32 | 8 | 0 | -4.07807 | 2.141094 | 0.616494 |
| 33 | 8 | 0 | -2.49044 | -2.86805 | 0.599146 |
| 34 | 6 | 0 | 2.742257 | -0.56084 | -0.44462 |
| 35 | 6 | 0 | 1.90254 | -0.2594 | 0.807303 |
| 36 | 6 | 0 | 4.166068 | -0.98135 | -0.04063 |
| 37 | 1 | 0 | 2.783012 | 0.323388 | -1.09103 |
| 38 | 1 | 0 | 1.853156 | -1.17651 | 1.405948 |
| 39 | 6 | 0 | 4.784373 | 0.042681 | 0.922754 |
| 40 | 1 | 0 | 4.116066 | -1.94762 | 0.473586 |
| 41 | 6 | 0 | 3.826852 | 0.325443 | 2.100374 |
| 42 | 1 | 0 | 4.963172 | 0.984245 | 0.387873 |
| 43 | 1 | 0 | 3.702804 | -0.61233 | 2.669047 |
| 44 | 1 | 0 | 2.273241 | -1.37088 | -1.01425 |
| 45 | 8 | 0 | 2.541593 | 0.742557 | 1.614566 |
| 46 | 6 | 0 | 4.333989 | 1.422545 | 3.022094 |
| 47 | 1 | 0 | 3.63765 | 1.573466 | 3.853869 |
| 48 | 1 | 0 | 5.311092 | 1.151296 | 3.431983 |
| 49 | 1 | 0 | 4.435553 | 2.368802 | 2.477326 |
| 50 | 8 | 0 | 6.065794 | -0.37494 | 1.390407 |
| 51 | 1 | 0 | 5.952001 | -1.22804 | 1.845724 |
| 52 | 7 | 0 | 5.022492 | -1.17524 | -1.20512 |
| 53 | 6 | 0 | 5.237978 | -2.37766 | -1.78539 |
| 54 | 8 | 0 | 4.751606 | -3.43154 | -1.34226 |
| 55 | 6 | 0 | 6.11987 | -2.37871 | -3.01597 |
| 56 | 1 | 0 | 5.562763 | -2.81981 | -3.8497 |
| 57 | 1 | 0 | 6.465406 | -1.38227 | -3.30541 |
| 58 | 1 | 0 | 6.989353 | -3.01848 | -2.82809 |
| 59 | 1 | 0 | 5.419609 | -0.34999 | -1.63877 |
| 60 | 8 | 0 | -2.83922 | 3.09323 | -1.50742 |
| 61 | 1 | 0 | -2.8735 | 3.936539 | -1.99307 |

Table S3. Optimized Z-Matrixes of of Conformer 2 of (1'R, 3'R, 4'S, 5'R)-1. Standard orientation.

| Center Number | Atomic Number | Atomic Type | Coordinates (Angstroms) | | |
|---------------|---------------|-------------|-------------------------|----------|----------|
| | | | X | Y | Z |
| 1 | 6 | 0 | -6.58576 | -2.23913 | -0.21749 |
| 2 | 6 | 0 | -5.22579 | -2.55237 | -0.04242 |
| 3 | 6 | 0 | -4.27982 | -1.50782 | 0.094572 |
| 4 | 6 | 0 | -4.74015 | -0.17343 | 0.055855 |
| 5 | 6 | 0 | -6.09174 | 0.123201 | -0.10331 |
| 6 | 6 | 0 | -7.0112 | -0.91966 | -0.24676 |
| 7 | 6 | 0 | -2.84886 | -1.74223 | 0.311116 |
| 8 | 6 | 0 | -3.78984 | 0.955263 | 0.189873 |
| 9 | 6 | 0 | -2.33905 | 0.722268 | 0.002378 |
| 10 | 6 | 0 | -1.90314 | -0.59576 | 0.252618 |
| 11 | 6 | 0 | -0.51205 | -0.85235 | 0.450178 |
| 12 | 6 | 0 | 0.427728 | 0.17939 | 0.405567 |
| 13 | 6 | 0 | 0.024236 | 1.477156 | -0.02324 |

Table S3. Cont.

| Center Number | Atomic Number | Atomic Type | Coordinates (Angstroms) | | |
|---------------|---------------|-------------|-------------------------|----------|----------|
| | | | X | Y | Z |
| 14 | 6 | 0 | -1.38345 | 1.768705 | -0.23713 |
| 15 | 6 | 0 | -1.68947 | 3.075246 | -0.77638 |
| 16 | 6 | 0 | -0.69239 | 3.996618 | -1.02366 |
| 17 | 6 | 0 | 0.668964 | 3.718414 | -0.77774 |
| 18 | 6 | 0 | 1.004104 | 2.478981 | -0.28136 |
| 19 | 6 | 0 | 1.71302 | 4.764551 | -1.06972 |
| 20 | 8 | 0 | -4.82076 | -3.84107 | -0.00994 |
| 21 | 8 | 0 | -0.05662 | -2.09646 | 0.709259 |
| 22 | 8 | 0 | -4.24635 | 2.069983 | 0.50507 |
| 23 | 8 | 0 | -2.41961 | -2.89666 | 0.519324 |
| 24 | 6 | 0 | 2.692389 | -0.57965 | -0.50735 |
| 25 | 6 | 0 | 1.860674 | -0.21723 | 0.737271 |
| 26 | 6 | 0 | 4.116116 | -0.96863 | -0.08376 |
| 27 | 6 | 0 | 4.728307 | 0.115567 | 0.820584 |
| 28 | 6 | 0 | 3.790364 | 0.413961 | 2.001742 |
| 29 | 8 | 0 | 2.504198 | 0.811132 | 1.504147 |
| 30 | 6 | 0 | 4.289067 | 1.536586 | 2.897182 |
| 31 | 8 | 0 | 5.977485 | -0.3077 | 1.362452 |
| 32 | 7 | 0 | 4.966122 | -1.22137 | -1.24279 |
| 33 | 6 | 0 | 5.616503 | -2.38936 | -1.4755 |
| 34 | 8 | 0 | 5.586704 | -3.34562 | -0.68646 |
| 35 | 6 | 0 | 6.390619 | -2.46491 | -2.77439 |
| 36 | 8 | 0 | -2.93464 | 3.457681 | -1.17896 |
| 37 | 1 | 0 | -7.29863 | -3.05292 | -0.3242 |
| 38 | 1 | 0 | -6.41542 | 1.15708 | -0.12585 |
| 39 | 1 | 0 | -8.06583 | -0.69909 | -0.38281 |
| 40 | 1 | 0 | -0.99096 | 4.956632 | -1.43617 |
| 41 | 1 | 0 | 2.04132 | 2.251979 | -0.08619 |
| 42 | 1 | 0 | 1.520871 | 5.682519 | -0.49946 |
| 43 | 1 | 0 | 2.717322 | 4.411127 | -0.81706 |
| 44 | 1 | 0 | 1.705114 | 5.043858 | -2.13126 |
| 45 | 1 | 0 | -5.59062 | -4.42412 | -0.14314 |
| 46 | 1 | 0 | -0.85518 | -2.69767 | 0.712807 |
| 47 | 1 | 0 | 2.722391 | 0.270943 | -1.1987 |
| 48 | 1 | 0 | 1.808763 | -1.11037 | 1.370678 |
| 49 | 1 | 0 | 4.090491 | -1.90175 | 0.486687 |
| 50 | 1 | 0 | 4.858397 | 1.041254 | 0.237173 |
| 51 | 1 | 0 | 3.677078 | -0.51135 | 2.589953 |
| 52 | 1 | 0 | 2.219512 | -1.41776 | -1.03058 |
| 53 | 1 | 0 | 3.577903 | 1.714537 | 3.711067 |
| 54 | 1 | 0 | 5.256375 | 1.273315 | 3.334766 |
| 55 | 1 | 0 | 4.404831 | 2.465867 | 2.326833 |
| 56 | 1 | 0 | 6.56145 | -0.51664 | 0.613089 |
| 57 | 1 | 0 | 6.353254 | -1.53951 | -3.35525 |
| 58 | 1 | 0 | 7.435235 | -2.70826 | -2.55295 |
| 59 | 1 | 0 | 5.984073 | -3.28311 | -3.37934 |
| 60 | 1 | 0 | 5.015243 | -0.49768 | -1.95105 |
| 61 | 1 | 0 | -3.59531 | 3.090039 | -0.54117 |

Table S4. Optimized Z-Matrixes of Conformer 1 of (6'S, 16'R, 17'R)-2. Standard orientation.

| Center Number | Atomic Number | Atomic Type | Coordinates (Angstroms) | | |
|---------------|---------------|-------------|-------------------------|----------|----------|
| | | | X | Y | Z |
| 1 | 6 | 0 | 5.715434 | -2.26822 | -0.43924 |
| 2 | 6 | 0 | 4.907718 | -1.12172 | -0.32309 |
| 3 | 6 | 0 | 3.495798 | -1.25714 | -0.24673 |
| 4 | 6 | 0 | 2.941269 | -2.55743 | -0.27372 |
| 5 | 6 | 0 | 3.752335 | -3.68344 | -0.38148 |
| 6 | 6 | 0 | 5.141711 | -3.52954 | -0.4691 |
| 7 | 6 | 0 | 2.640604 | -0.07112 | -0.13037 |
| 8 | 6 | 0 | 1.479828 | -2.72632 | -0.17092 |
| 9 | 6 | 0 | 0.615796 | -1.54209 | -0.11636 |
| 10 | 6 | 0 | 1.158195 | -0.22385 | -0.14482 |
| 11 | 6 | 0 | 0.281076 | 0.882229 | -0.19481 |
| 12 | 6 | 0 | -1.11021 | 0.646101 | -0.21102 |
| 13 | 6 | 0 | -1.67063 | -0.62528 | -0.03838 |
| 14 | 6 | 0 | -0.78923 | -1.7372 | -0.05084 |
| 15 | 6 | 0 | -3.14315 | -0.76589 | 0.092731 |
| 16 | 6 | 0 | -2.04477 | 1.817436 | -0.458 |
| 17 | 6 | 0 | -3.29621 | 1.381253 | -1.21226 |
| 18 | 6 | 0 | -3.94768 | 0.224891 | -0.50216 |
| 19 | 6 | 0 | -3.74617 | -1.80542 | 0.826174 |
| 20 | 6 | 0 | -5.34207 | 0.114805 | -0.40165 |
| 21 | 6 | 0 | -5.13518 | -1.89043 | 0.94864 |
| 22 | 6 | 0 | -5.93157 | -0.92655 | 0.317593 |
| 23 | 8 | 0 | -6.09359 | 1.075216 | -1.03093 |
| 24 | 8 | 0 | -1.3229 | -2.96388 | -0.04223 |
| 25 | 8 | 0 | 5.528483 | 0.070101 | -0.30513 |
| 26 | 8 | 0 | 3.175277 | 1.052955 | -0.02305 |
| 27 | 6 | 0 | 0.765313 | 2.32821 | -0.16955 |
| 28 | 6 | 0 | -0.30355 | 3.387558 | -0.5613 |
| 29 | 8 | 0 | 1.167581 | 2.579442 | 1.217536 |
| 30 | 6 | 0 | 2.253035 | 3.341509 | 1.453634 |
| 31 | 6 | 0 | 2.611676 | 3.334517 | 2.915187 |
| 32 | 8 | 0 | 2.859282 | 3.9532 | 0.591719 |
| 33 | 8 | 0 | -1.38358 | 2.78215 | -1.26389 |
| 34 | 6 | 0 | 0.24281 | 4.482099 | -1.46527 |
| 35 | 8 | 0 | 1.000038 | -3.88376 | -0.15981 |
| 36 | 6 | 0 | -5.77549 | -3.0129 | 1.730495 |
| 37 | 1 | 0 | 6.790955 | -2.13312 | -0.50554 |
| 38 | 1 | 0 | 3.302318 | -4.66933 | -0.39649 |
| 39 | 1 | 0 | 5.776606 | -4.40639 | -0.55875 |
| 40 | 1 | 0 | -3.00473 | 1.103875 | -2.23643 |
| 41 | 1 | 0 | -3.13125 | -2.54733 | 1.319522 |
| 42 | 1 | 0 | -7.01691 | -0.97613 | 0.390084 |
| 43 | 1 | 0 | -7.0365 | 0.910262 | -0.85759 |
| 44 | 1 | 0 | -0.56319 | -3.61983 | -0.09372 |
| 45 | 1 | 0 | 4.815587 | 0.760657 | -0.21666 |
| 46 | 1 | 0 | 1.748047 | 3.624039 | 3.523736 |
| 47 | 1 | 0 | 2.90227 | 2.320316 | 3.212403 |
| 48 | 1 | 0 | 3.44249 | 4.019933 | 3.093852 |

Table S4. Cont.

| Center Number | Atomic Number | Atomic Type | Coordinates (Angstroms) | | |
|---------------|---------------|-------------|-------------------------|----------|----------|
| | | | X | Y | Z |
| 49 | 1 | 0 | 1.647865 | 2.445419 | -0.79431 |
| 50 | 1 | 0 | -0.69079 | 3.824665 | 0.371479 |
| 51 | 1 | 0 | 0.641248 | 4.053682 | -2.39233 |
| 52 | 1 | 0 | -0.55699 | 5.184946 | -1.72352 |
| 53 | 1 | 0 | 1.044201 | 5.027378 | -0.96094 |
| 54 | 1 | 0 | -3.97812 | 2.231517 | -1.28916 |
| 55 | 1 | 0 | -2.33394 | 2.275675 | 0.503258 |
| 56 | 1 | 0 | -6.53505 | -2.6356 | 2.425838 |
| 57 | 1 | 0 | -6.2785 | -3.72513 | 1.062556 |
| 58 | 1 | 0 | -5.03038 | -3.56936 | 2.308534 |



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