

Supporting Information

Rec. Nat. Prod. X:X (2025) XX-XX

Fusasolpolyol A, An Unreported Polyhydroxy Compound Isolated from the *Sargassum thunbergii*-Derived Endophytic Fungus *Fusarium solani* 2024f-xx

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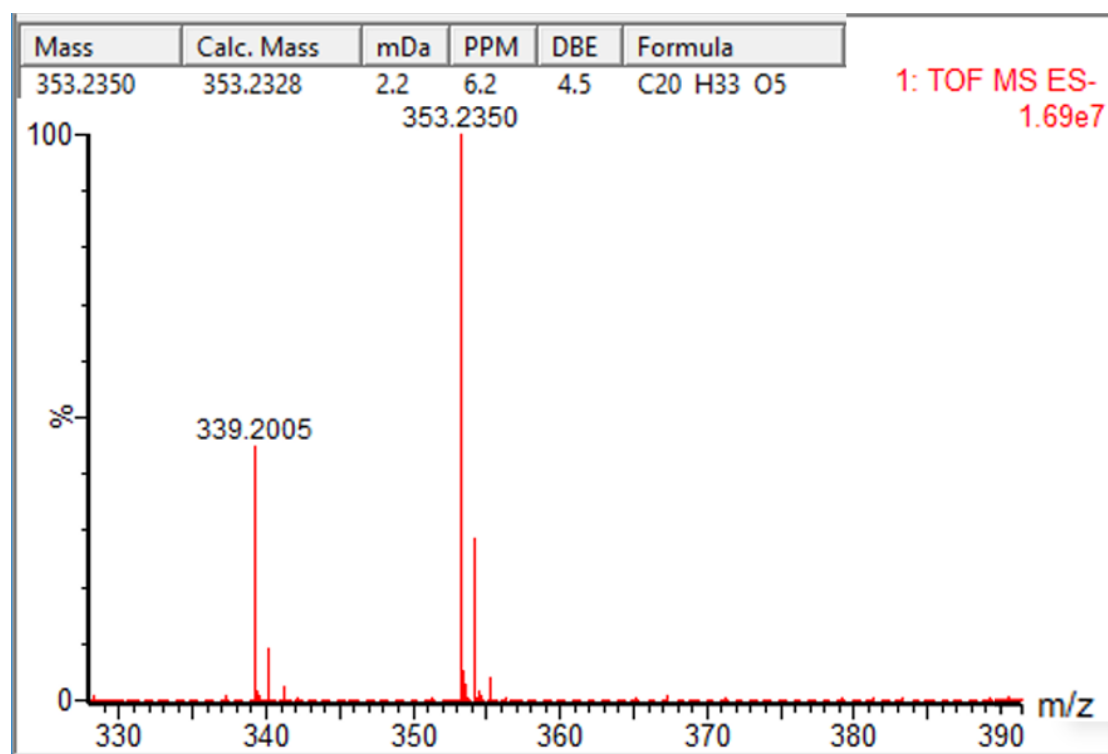


Figure S1: HRESIMS spectrum of **1**.

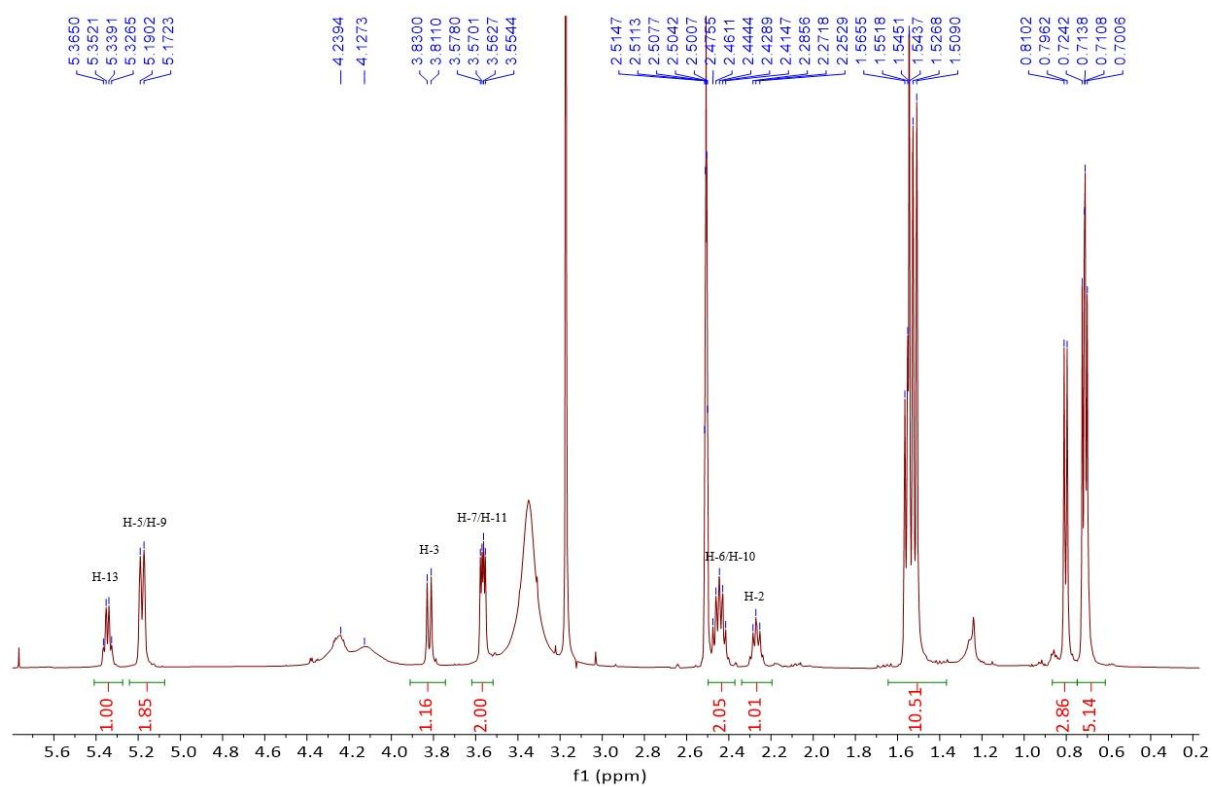


Figure S2: ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of **1**.

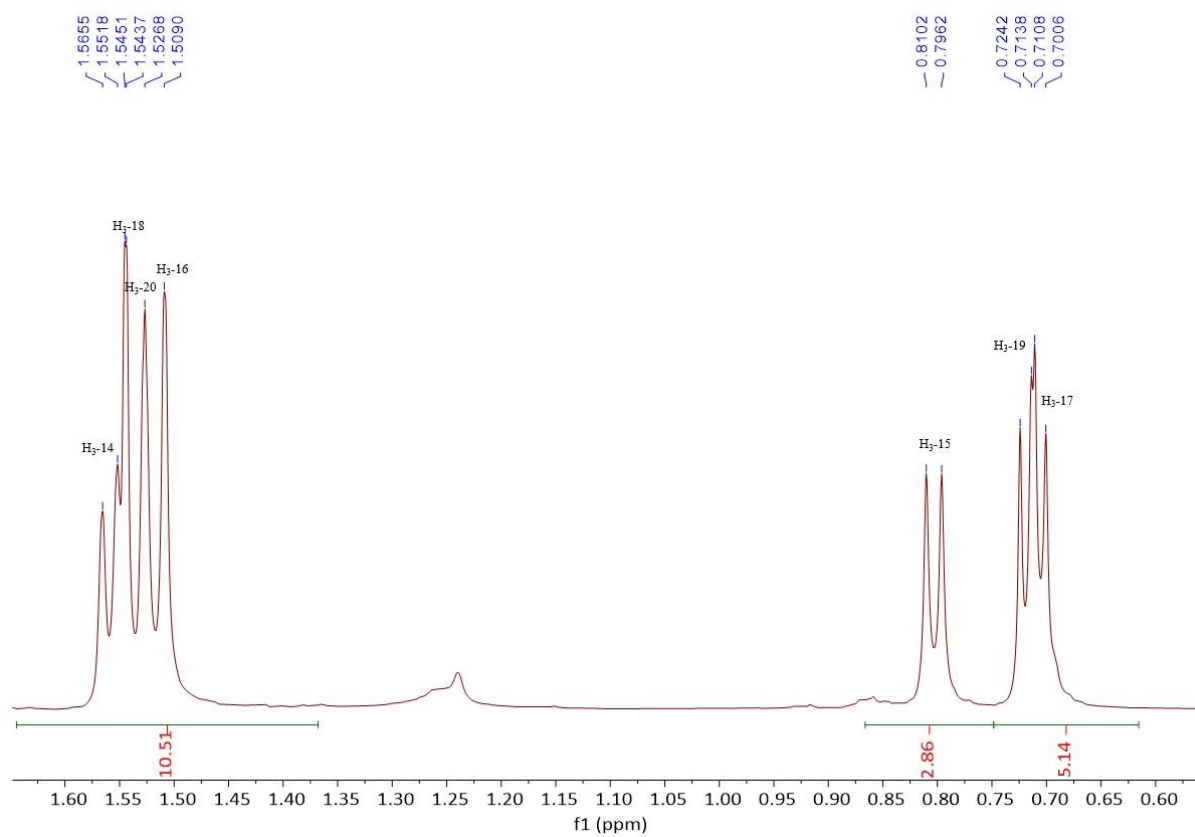


Figure S3: Enlarged ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of **1**.

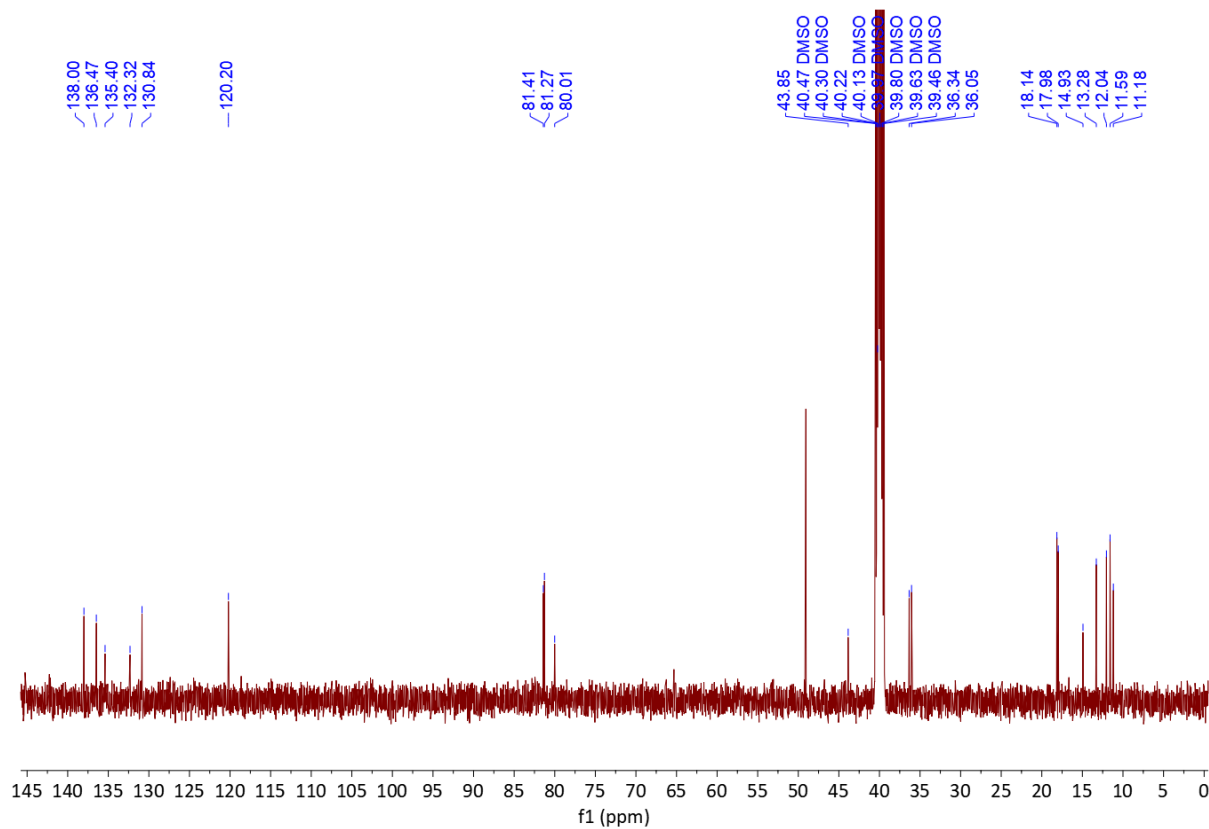


Figure S4: ^{13}C NMR (125 MHz, $\text{DMSO}-d_6$) spectrum of **1**.

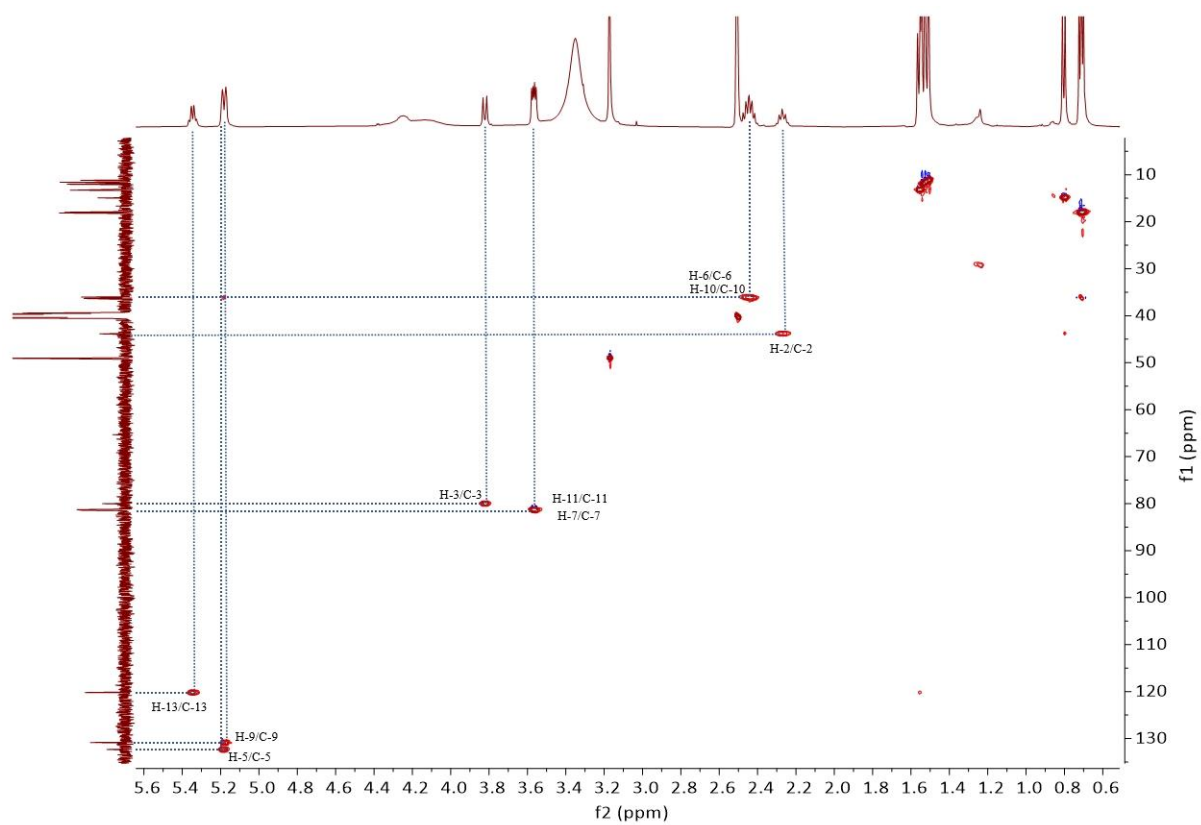


Figure S5: HSQC spectrum of **1**.

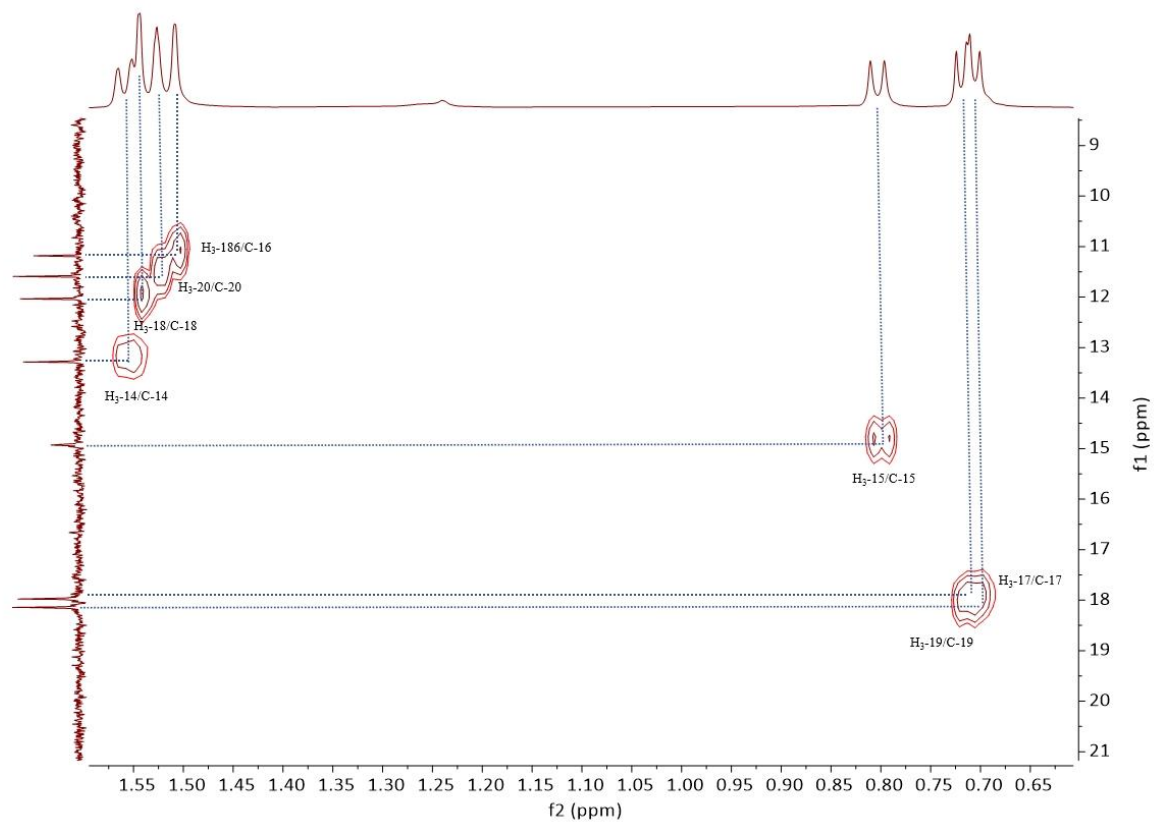


Figure S6: Enlarged HSQC spectrum of **1**.

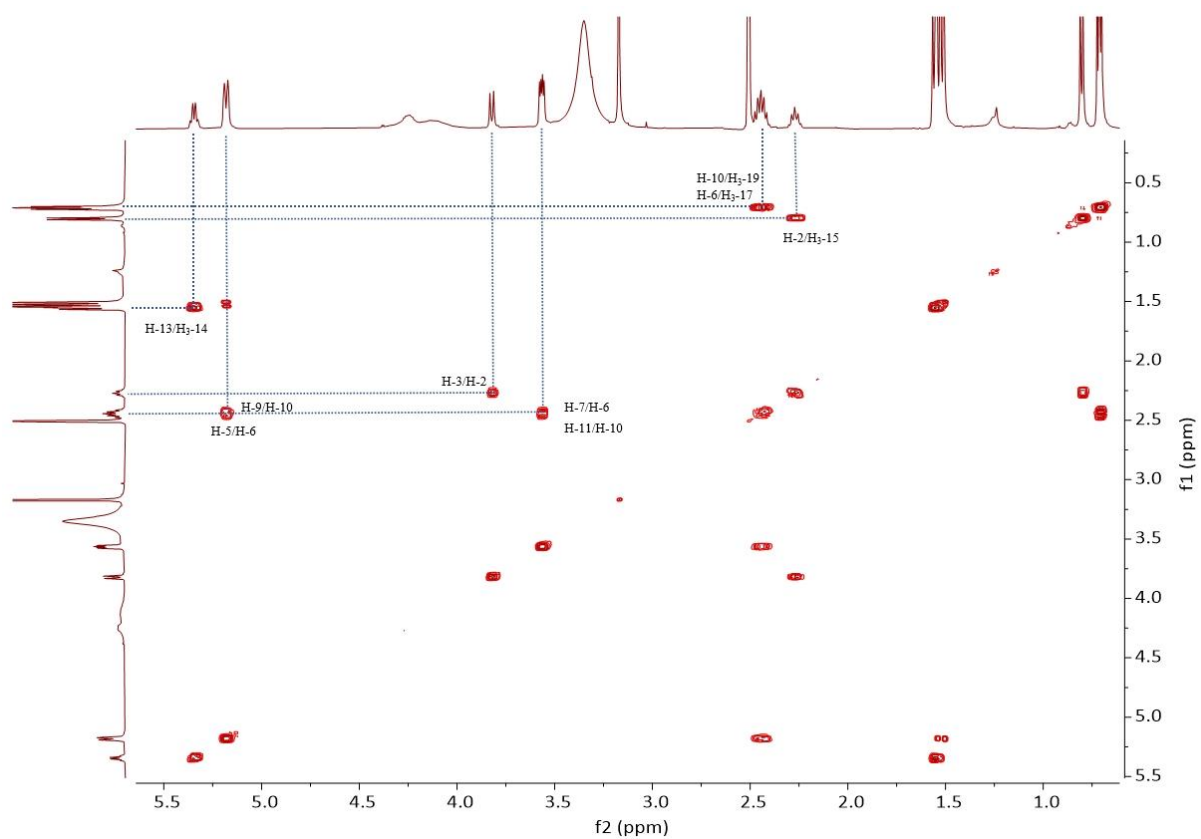


Figure S7: ^1H - ^1H COSY spectrum of **1**.

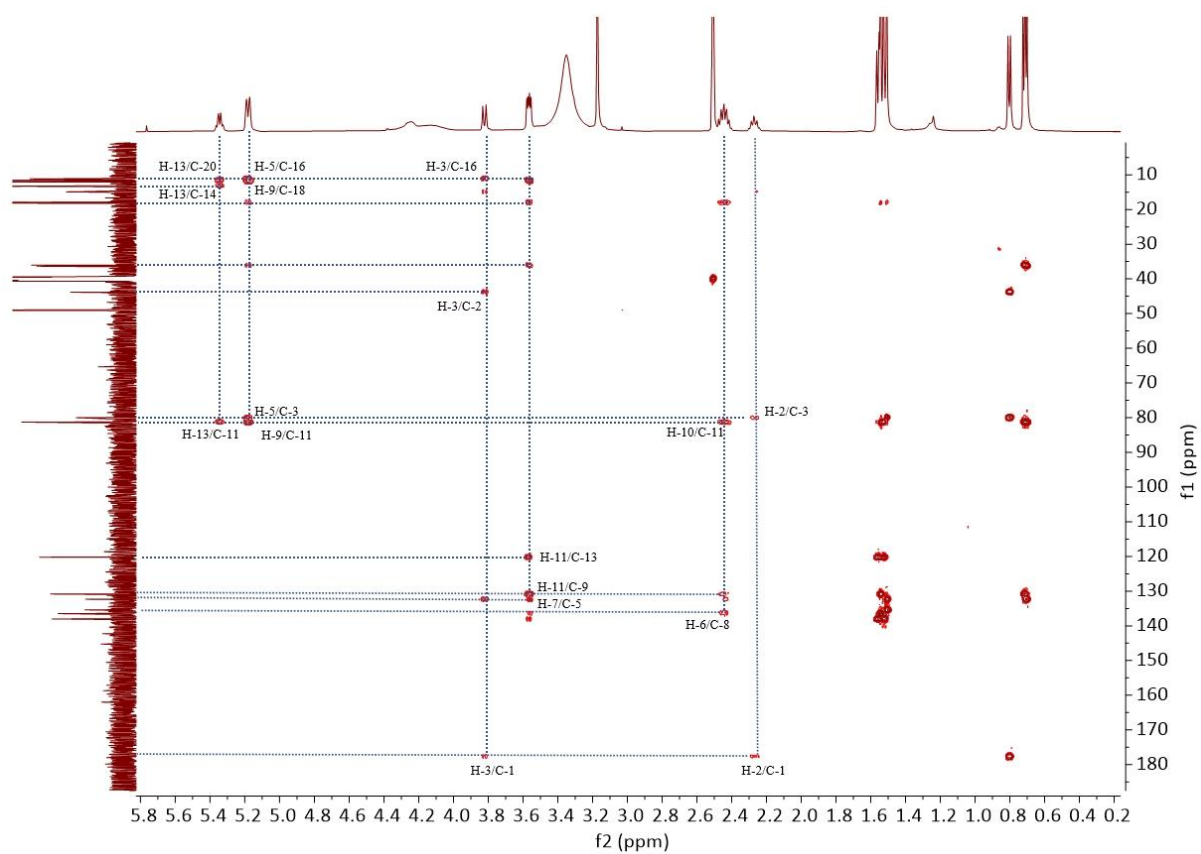


Figure S8: HMBC spectrum of **1**.

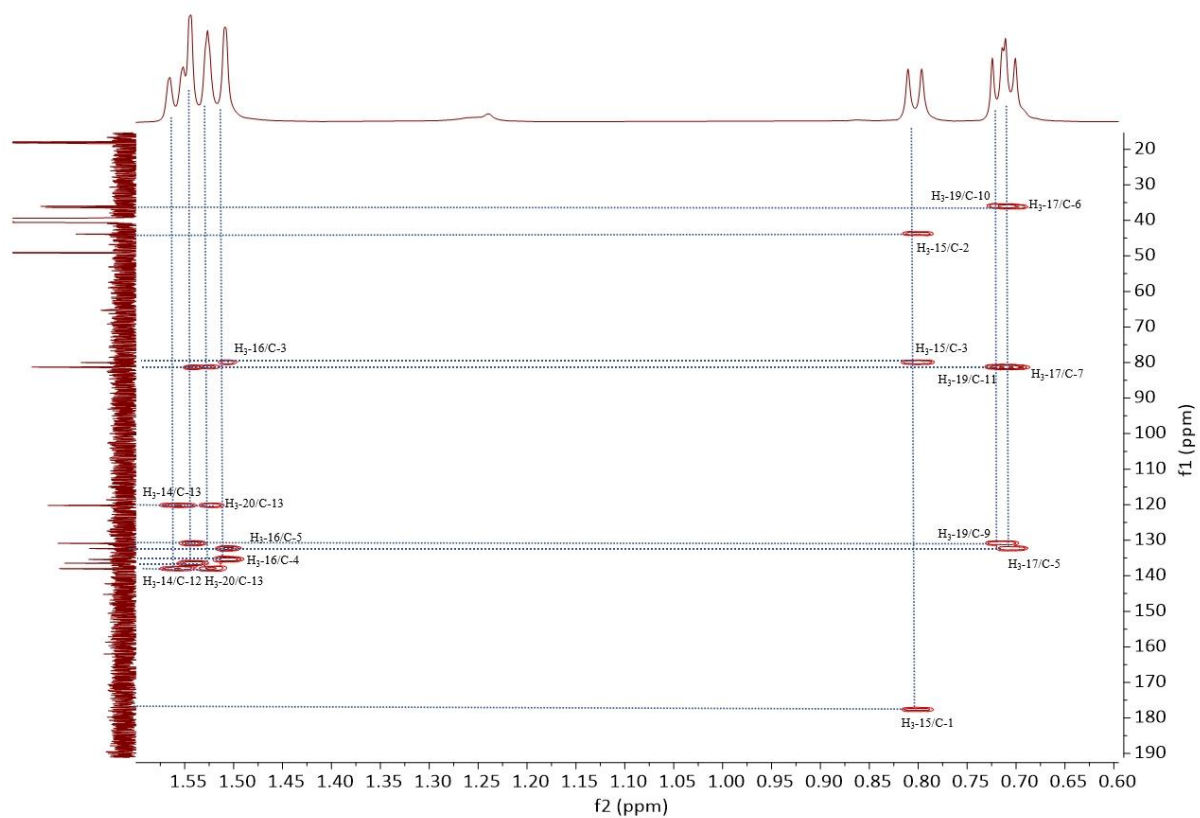


Figure S9: Enlarged HMBC spectrum of **1**.

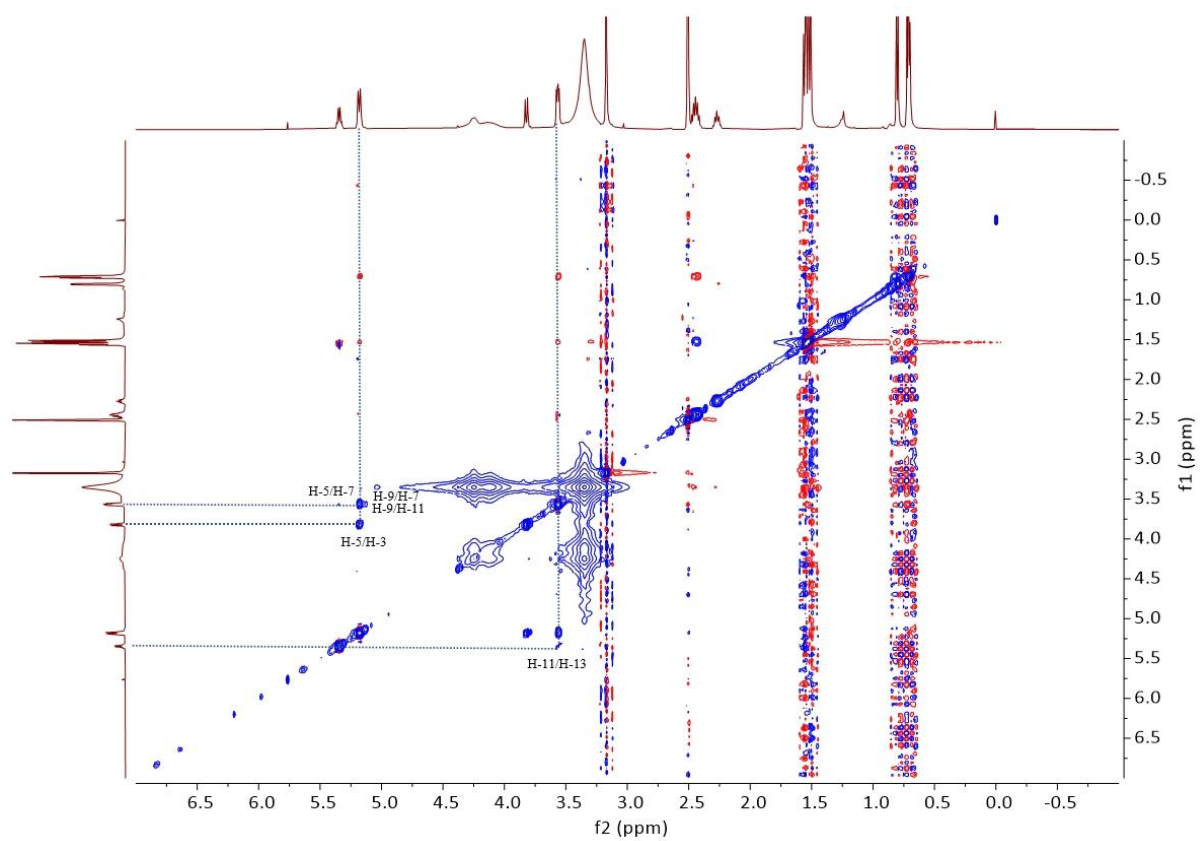


Figure S10: NOESY spectrum of **1**.

References Reactions Suppliers

Structure Match

As Drawn (0)

Substructure (10)

Similarity (73K)

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Search Within Results

Similarity

☒ 90-94 (9)

☒ 85-89 (156)

☐ 80-84 (996)

☐ 75-79 (3,240)

☐ 70-74 (7,689)

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Reaction Role

☐ Product (69)

☐ Reactant (13)

Reference Role

☐ Biological Study (117)

☐ Preparation (99)

☐ Synthetic Preparation (70)

☐ Biological Study, Unclassified (69)

☐ Uses (54)

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Life Science Data

Filtering: Similarity: 2 Selected X Number of Components: 1 X

Sort: Number of References: Descending View: Partial

165 Results

1 88

68860-46-8

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
8,11,12-Trihydroxy-5,9,14-eicosatrienoic acid

38 References 0 Reactions 3 Suppliers

2 88

94161-09-8

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
(5Z,9E,11S,12S,14Z)-8,11,12-Trihydroxy-5,9,14-eicosatrienoic acid

31 References 10 Reactions 1 Supplier

3 85

103488-85-3

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
(5Z,8Z,13E)-11,12,15-Trihydroxy-5,8,13-eicosatrienoic acid

27 References 0 Reactions 1 Supplier

4 85

94161-08-7

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
(5Z,8Z,14Z)-10,11,12-Trihydroxy-5,8,14-eicosatrienoic acid

22 References 0 Reactions 1 Supplier

5 85

82144-59-0

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
11,12,15-Trihydroxy-5,8,13-eicosatrienoic acid

16 References 0 Reactions 3 Suppliers

6 87

103488-86-4

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
(5Z,8Z,12E)-11,14,15-Trihydroxy-5,8,12-eicosatrienoic acid

13 References 0 Reactions 1 Supplier

7 86

1045894-07-2

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₂O₄
Smaditerpenic acid A

12 References 14 Reactions 0 Suppliers

8 88

68860-45-7

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₀H₃₄O₅
8,9,12-Trihydroxy-5,10,14-eicosatrienoic acid

11 References 0 Reactions 1 Supplier

9 87

1046271-97-9

CCCCC/C=C/C(O)/C=C/C(O)/C=C/C(O)CCCC(=O)O

C₂₁H₃₄O₄
Smaditerpenic acid C

10 References 15 Reactions 0 Suppliers

Figure S11: Scifinder search results of 1.

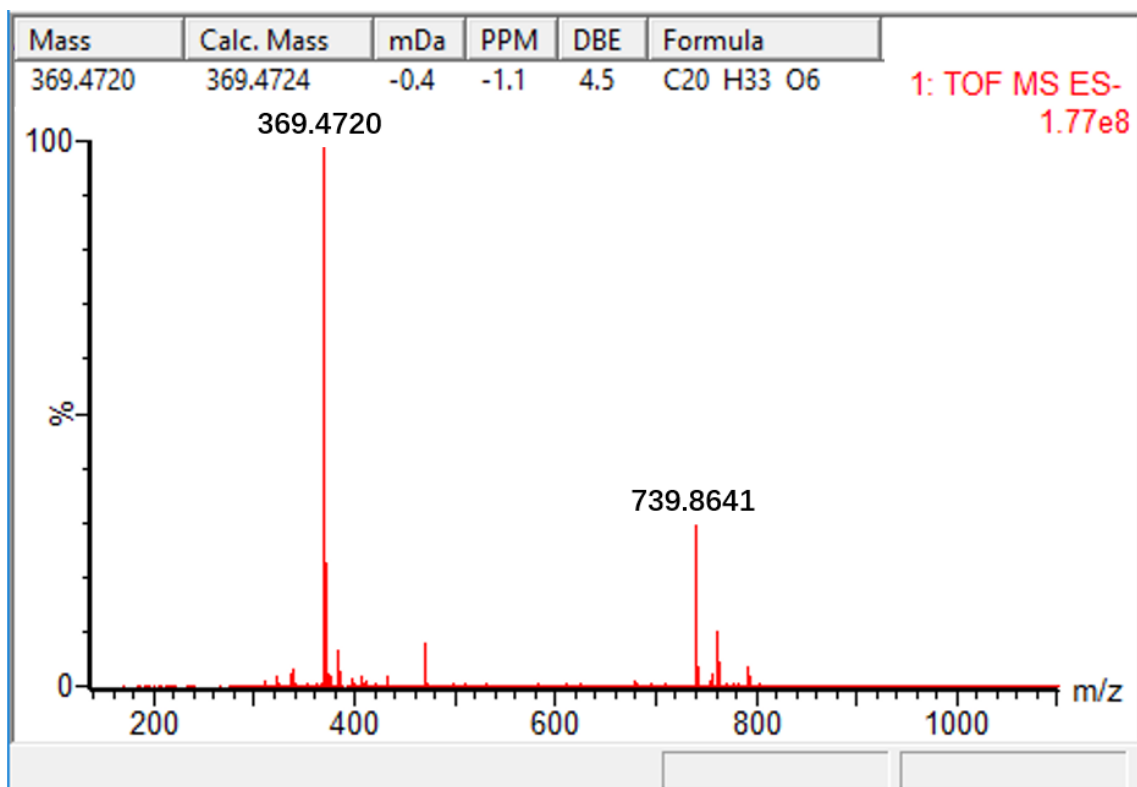


Figure S12: HRESIMS spectrum of **2**.

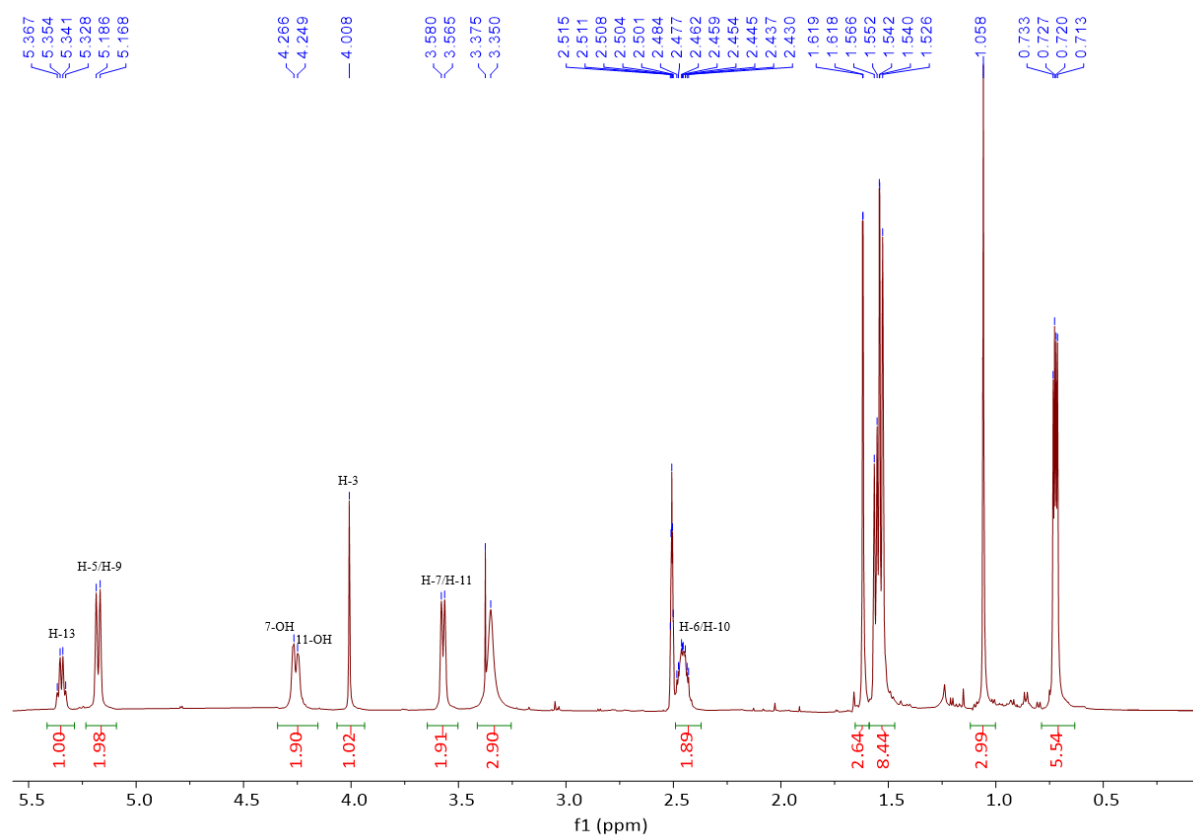


Figure S13: ^1H NMR (500 MHz, $\text{DMSO-}d_6$) spectrum of **2**.

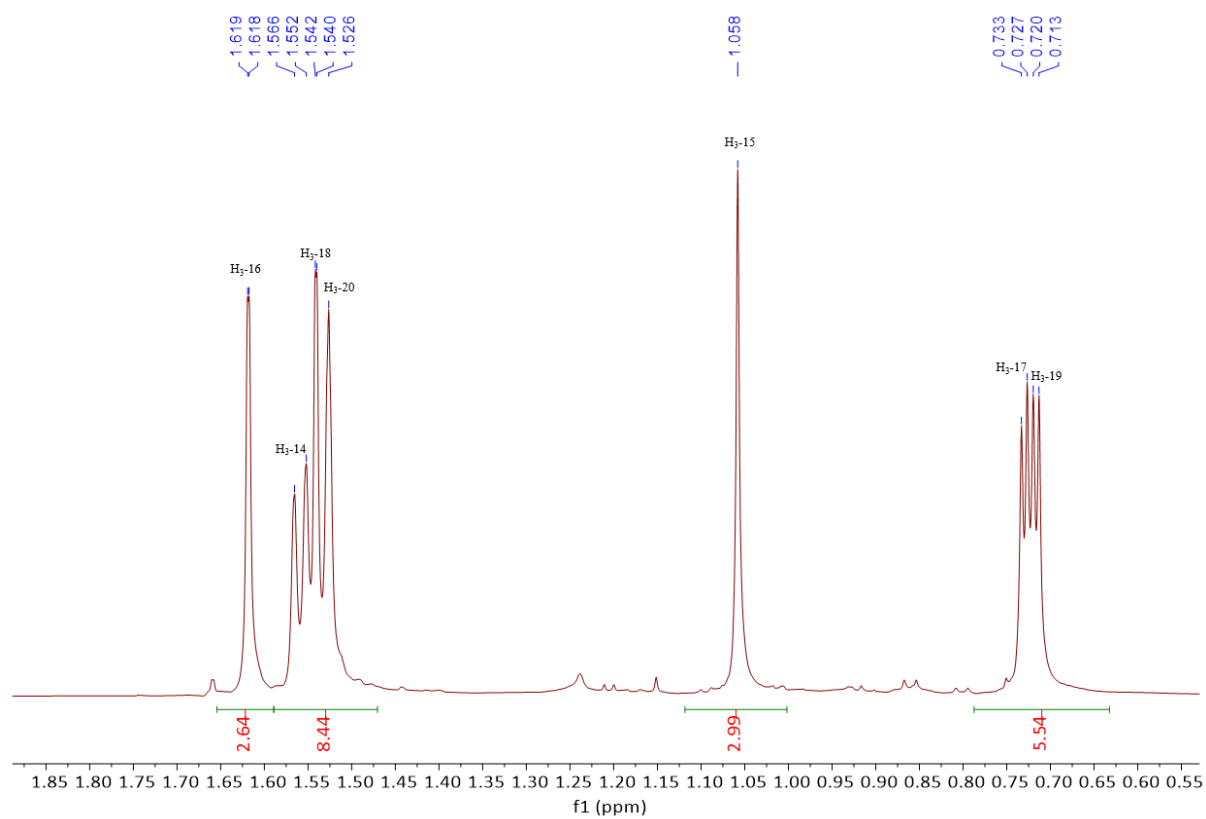


Figure S14: Enlarged ^1H NMR (500 MHz, $\text{DMSO-}d_6$) spectrum of **2**.

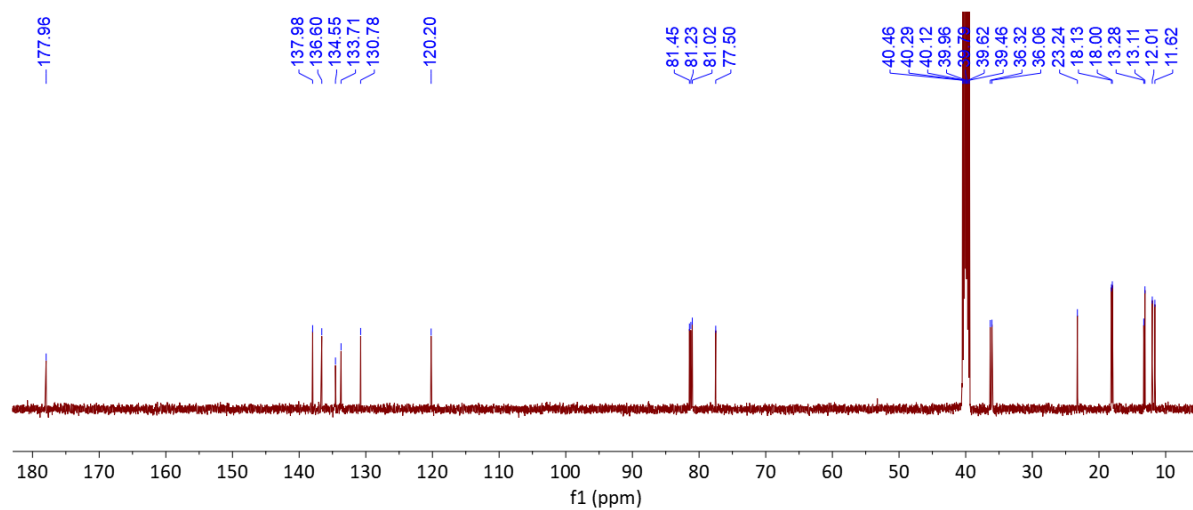


Figure S15: ¹³C NMR (125 MHz, DMSO-*d*₆) spectrum of **2**.

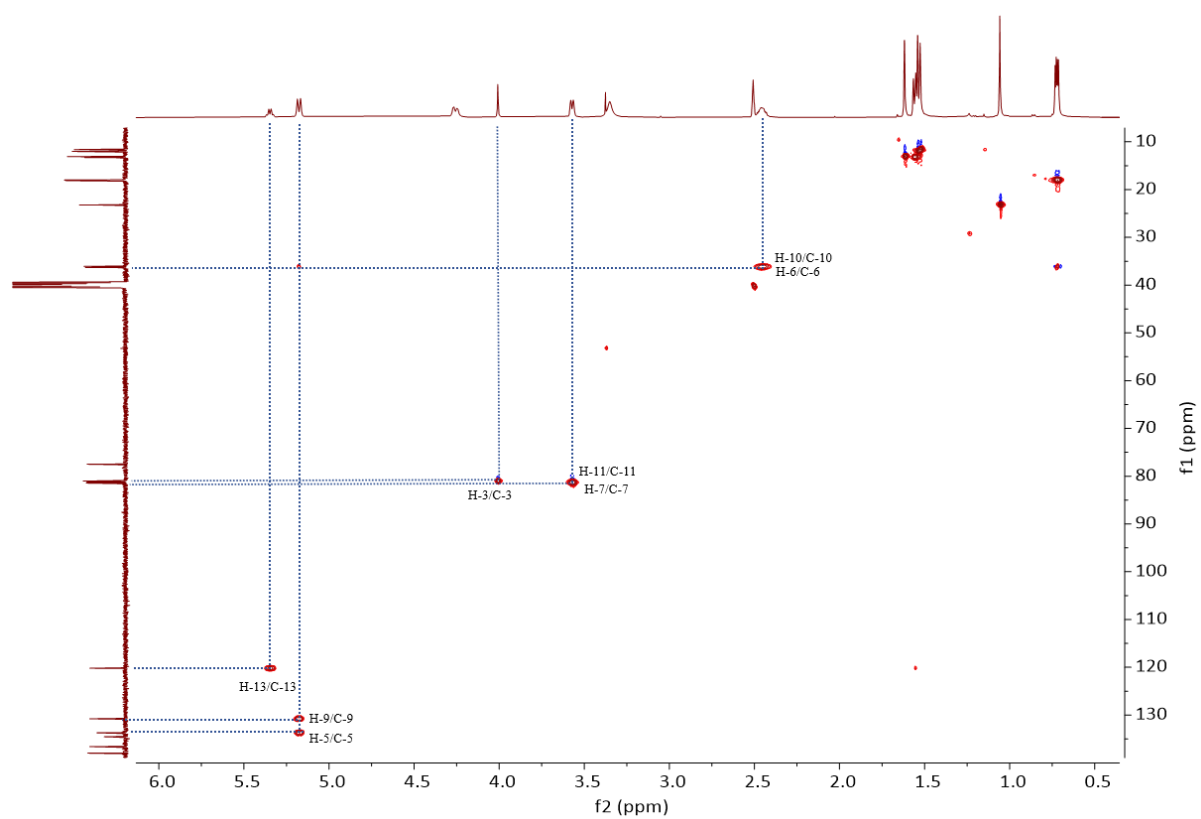


Figure S16: HSQC spectrum of **2**.

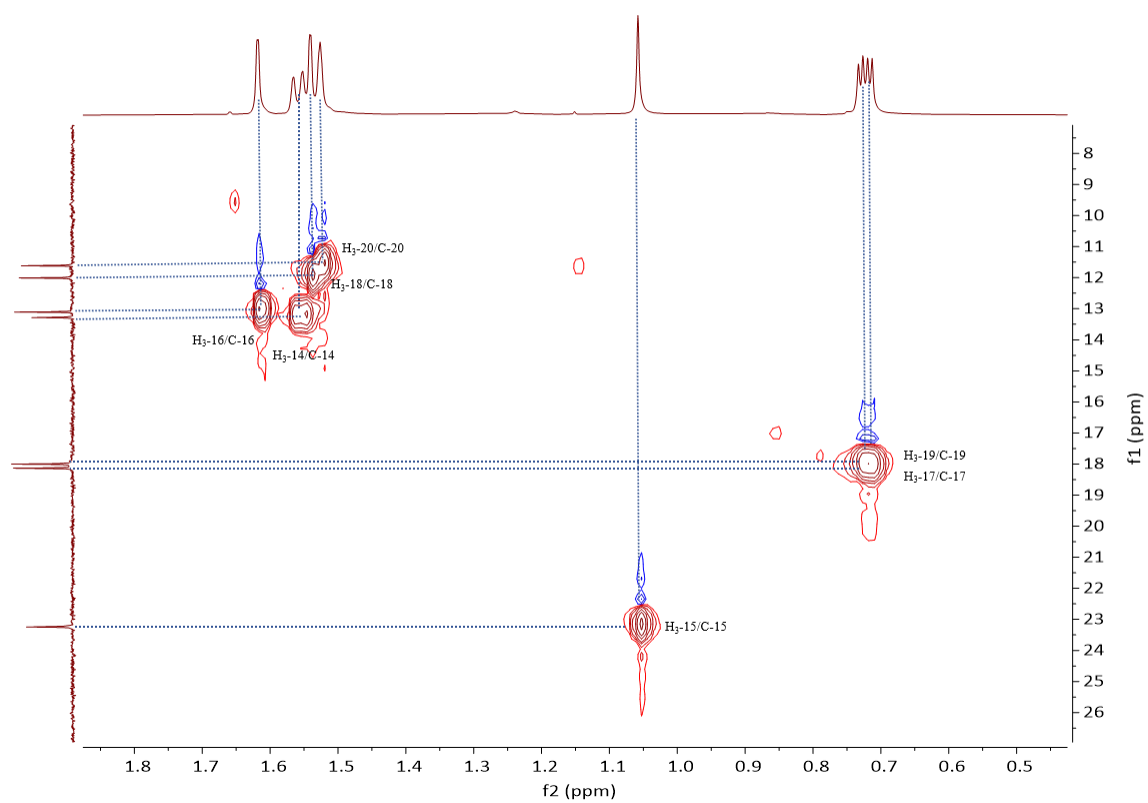


Figure S17: Enlarged HSQC spectrum of **2**.

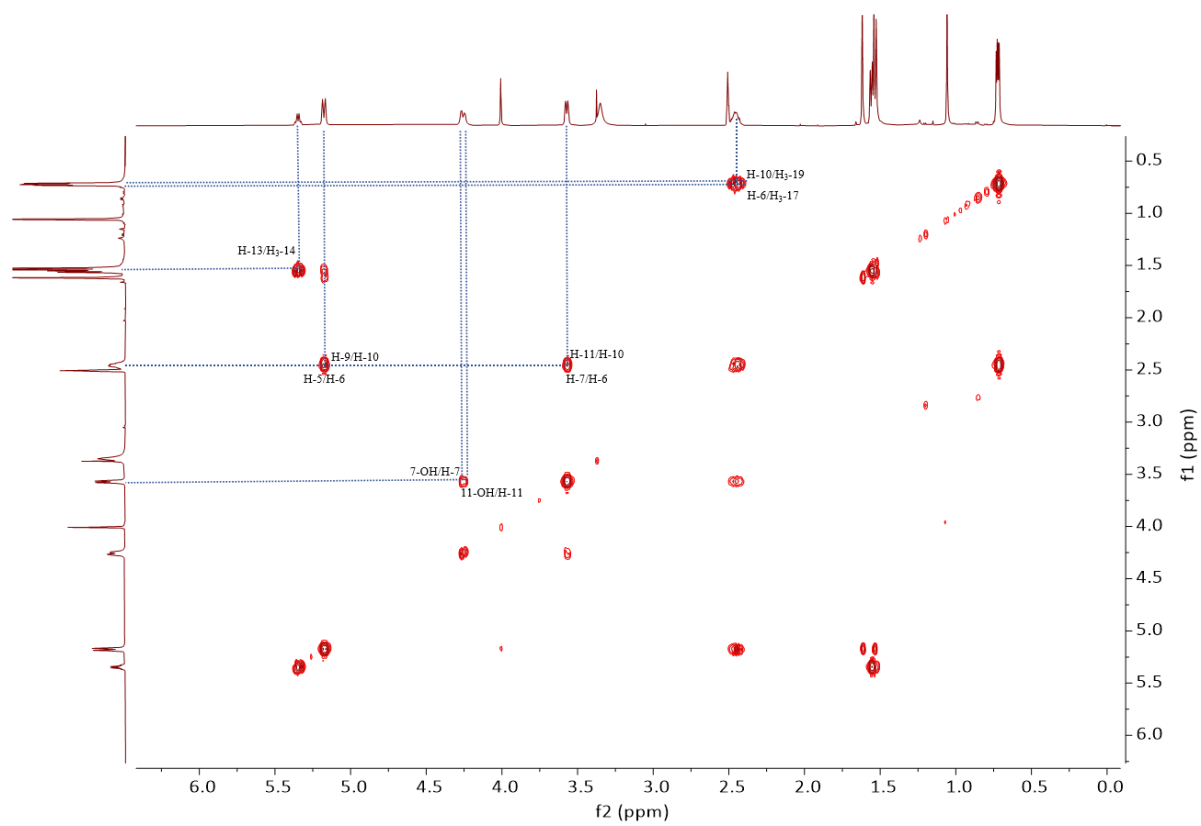


Figure S18: ^1H - ^1H COSY spectrum of **2**.

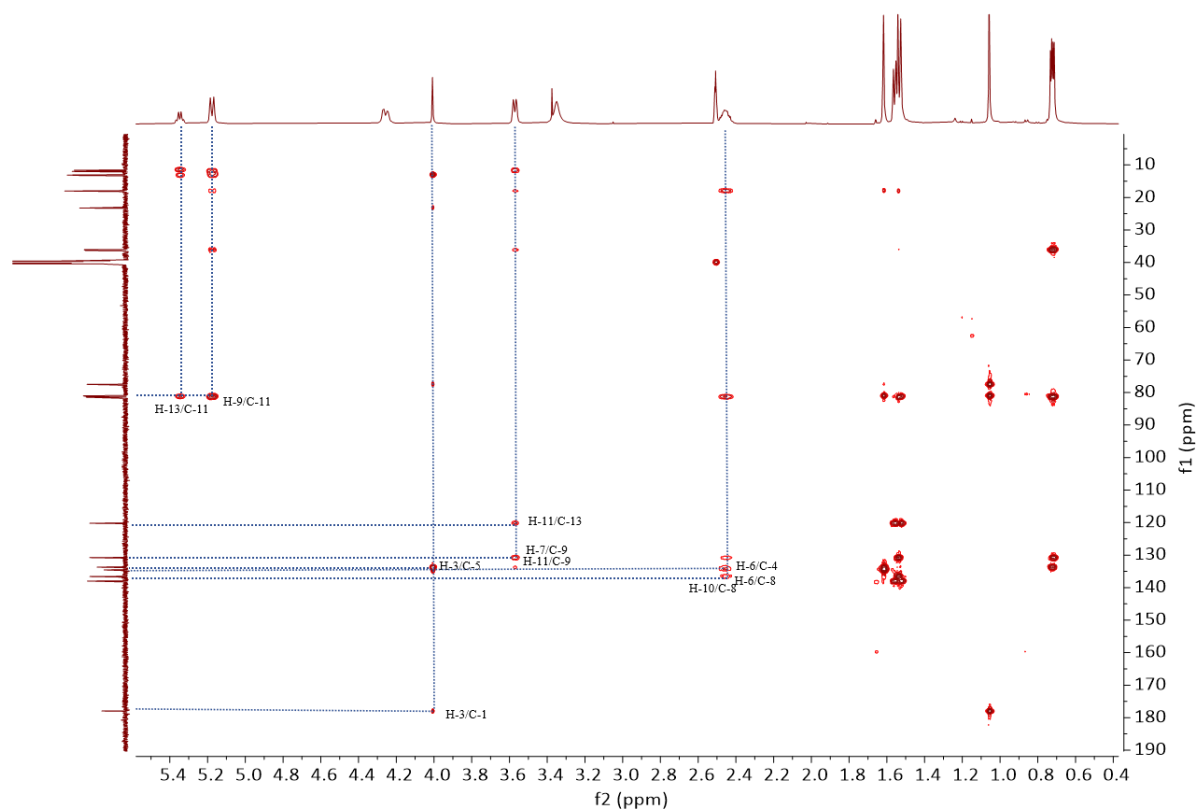


Figure S19: HMBC spectrum of **2**.

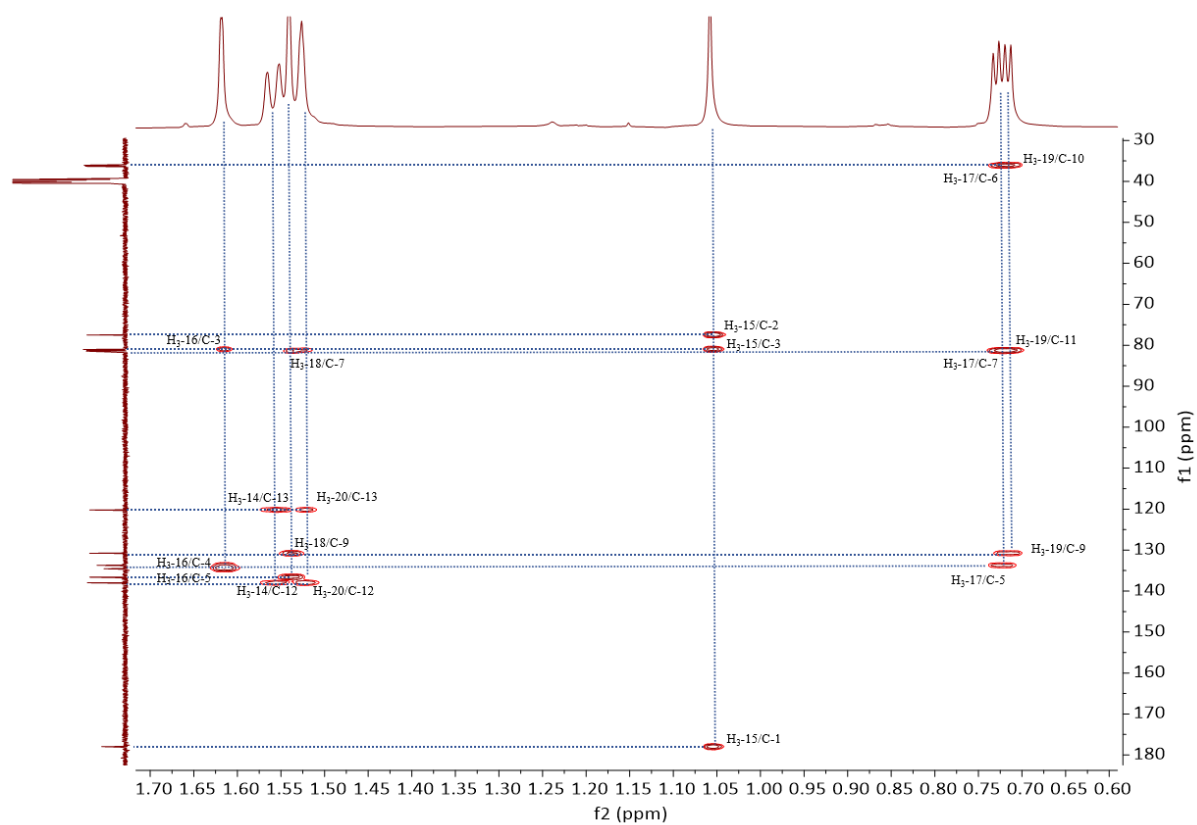


Figure S20: Enlarged HMBC spectrum of **2**.

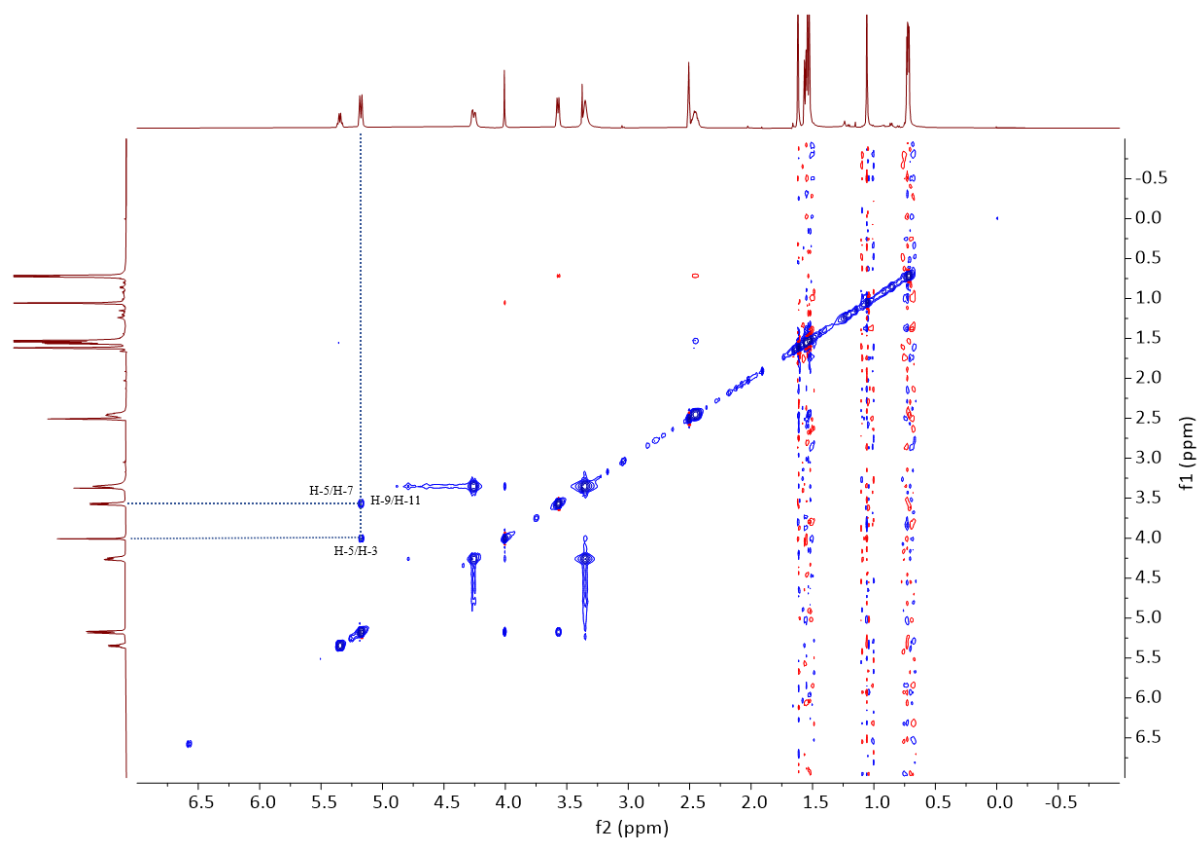


Figure S21: NOESY spectrum of **2**.

References Reactions Suppliers

Structure Match

As Drawn (1)

Substructure (1)

Similarity (59K)

Analyze Structure Precision

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Filter Behavior

Filter by Exclude

Search Within Results

1 Result

1

1246086-02-1



C₂₀H₃₄O₆

0 References 0 Reactions 3 Suppliers

View: Partial

?

Figure S22: Scifinder search results of **2**.