

SUPPLEMENTARY MATERIAL

Catalogue

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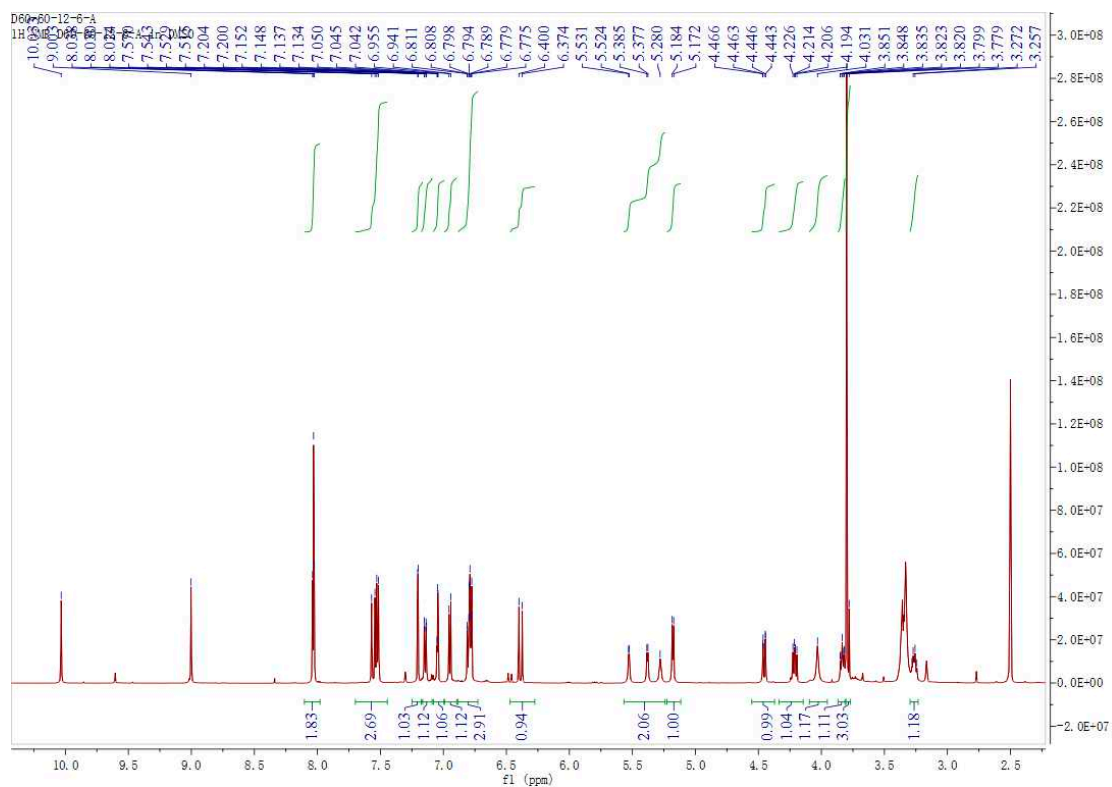


Figure S1. ^1H NMR (600 MHz, $\text{DMSO-}d_6$) spectrum of the new compound **1**.

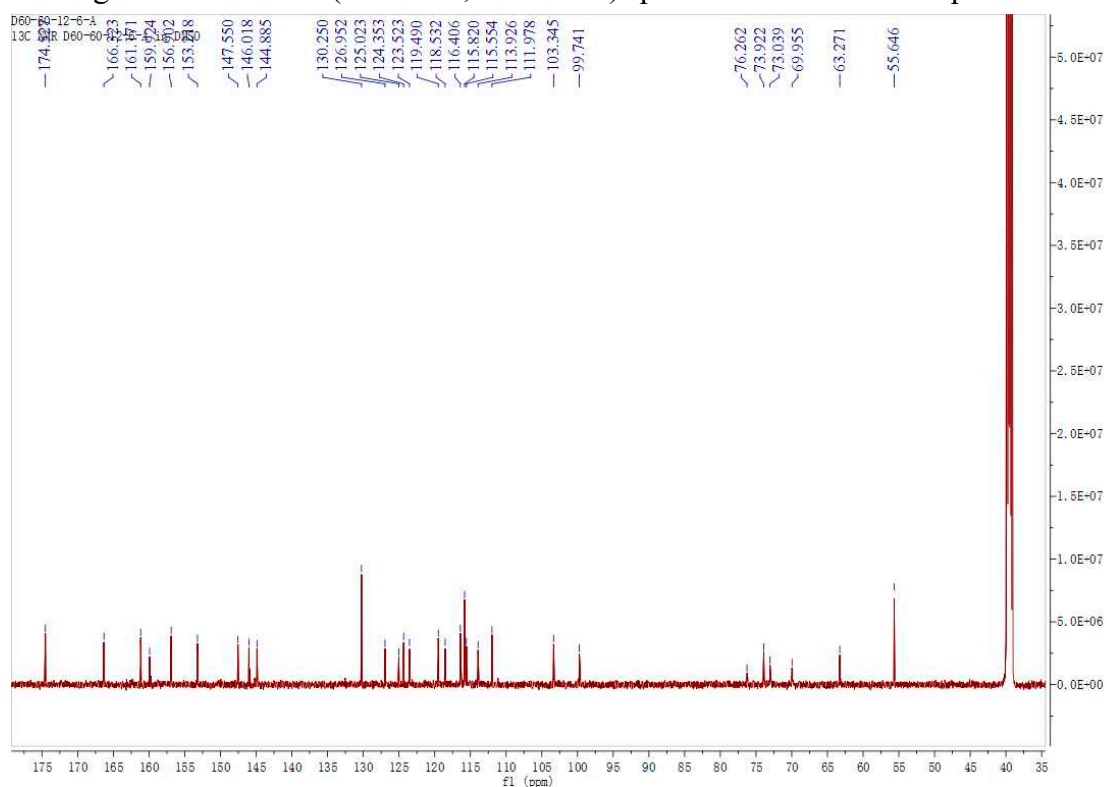


Figure S2. ^{13}C NMR (150 MHz, $\text{DMSO-}d_6$) spectrum of the new compound **1**.

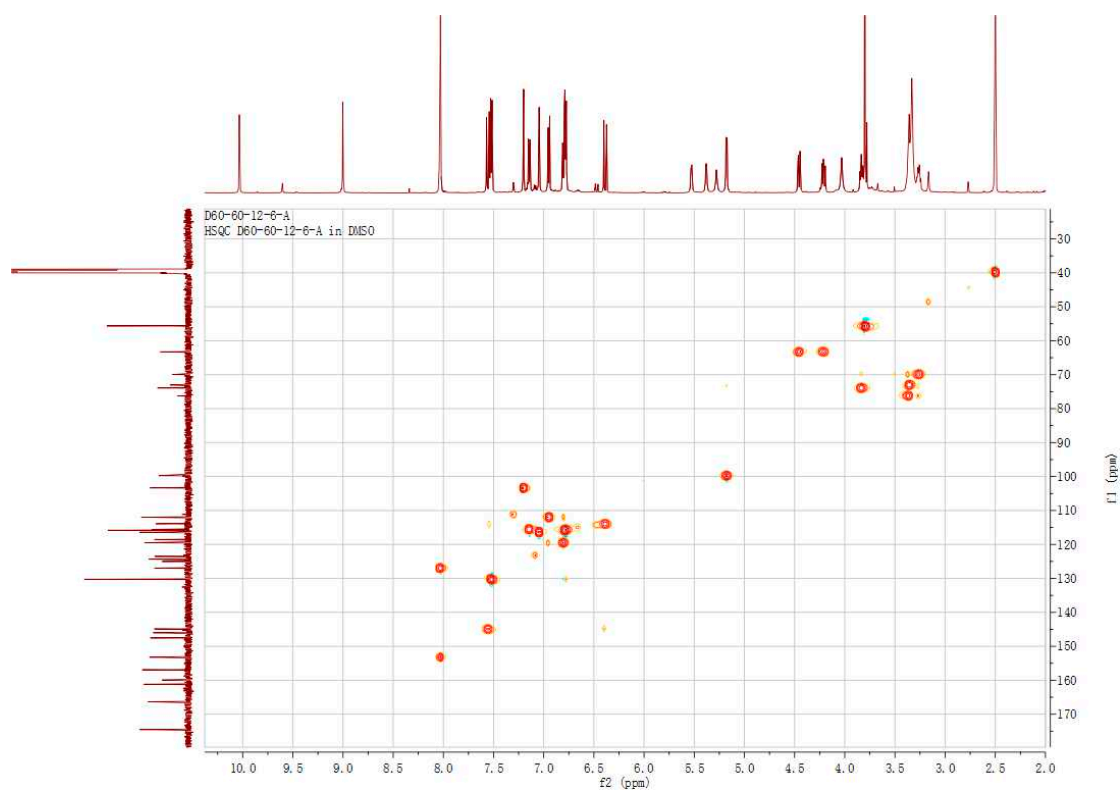


Figure S3. HSQC spectrum of the new compound **1**.

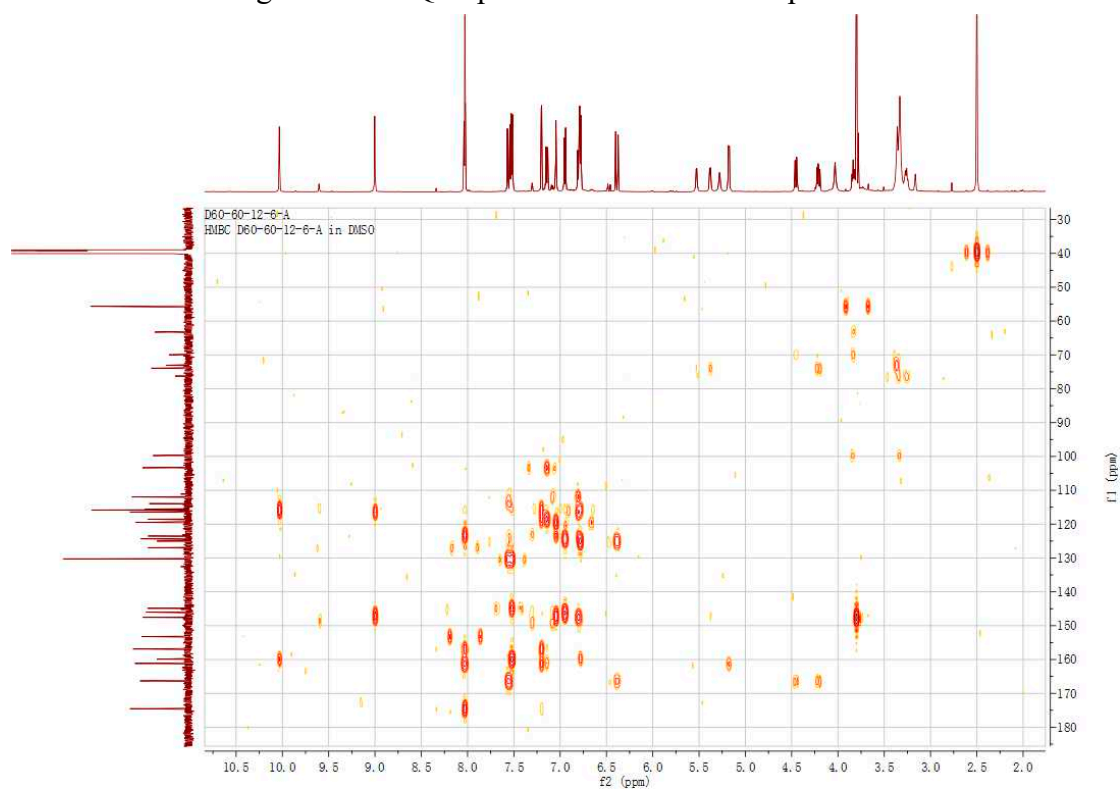


Figure S4. HMBC spectrum of the new compound **1**.

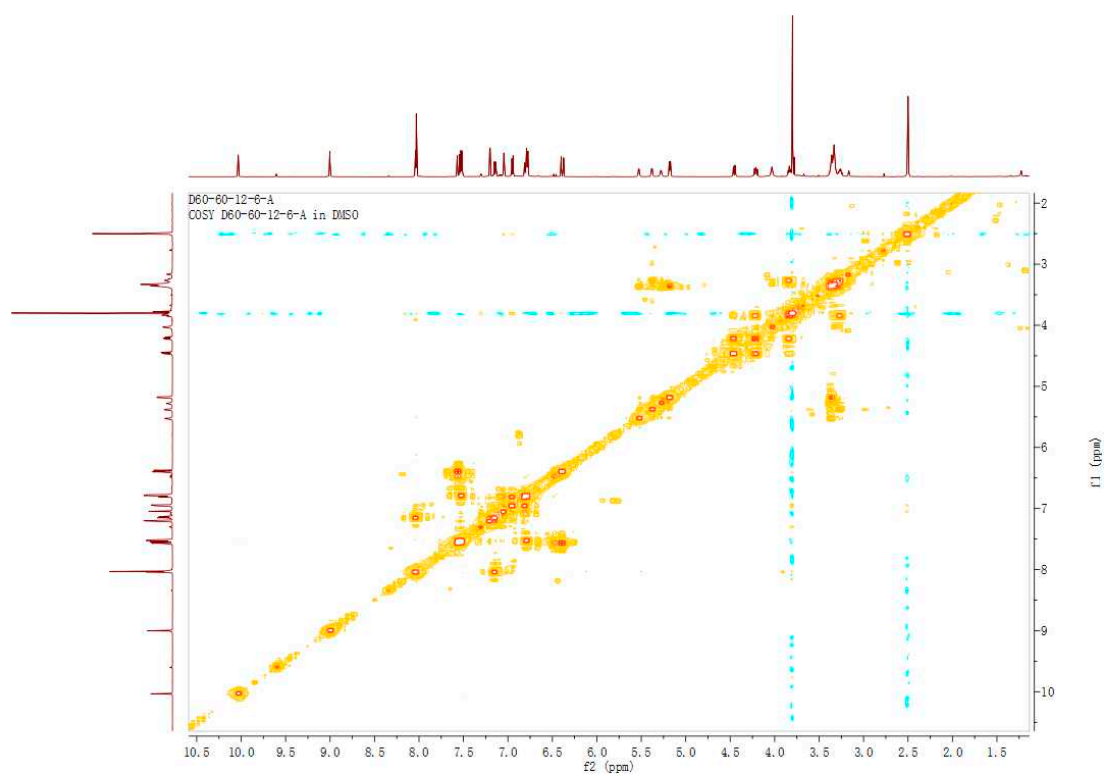


Figure S5. ^1H - ^1H COSY spectrum of the new compound **1**.

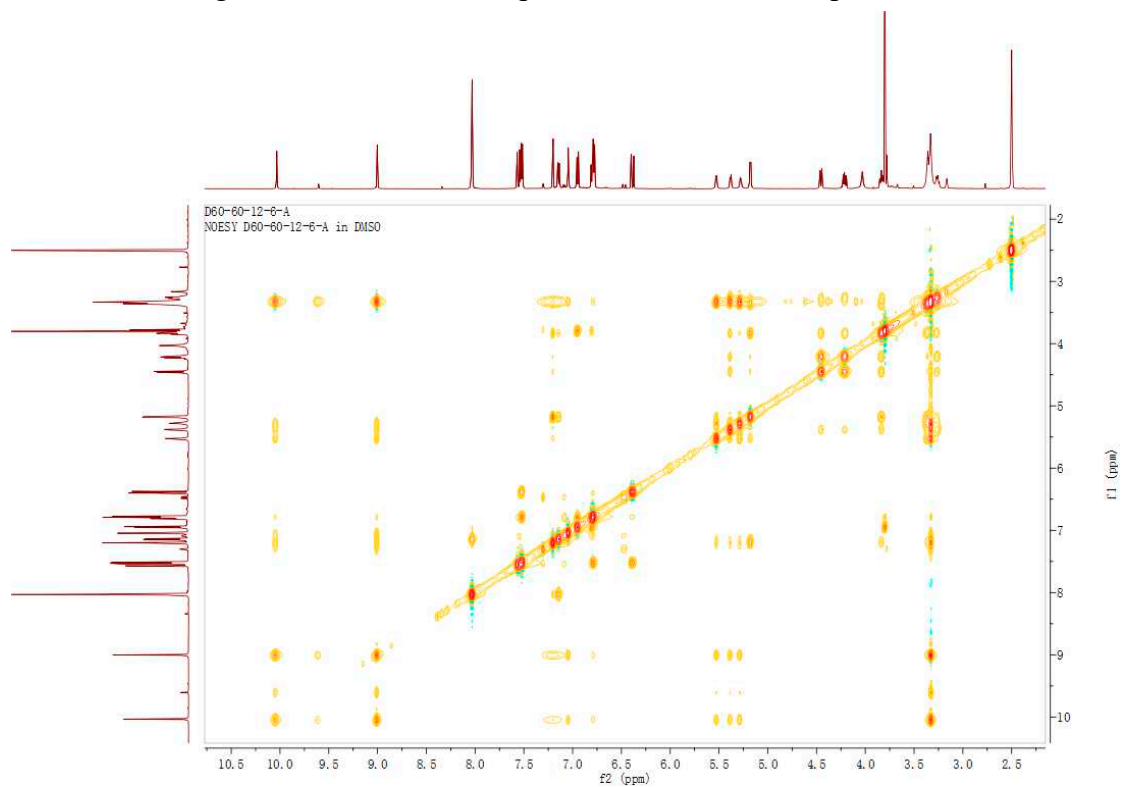


Figure S6. NOESY spectrum of the new compound **1**.

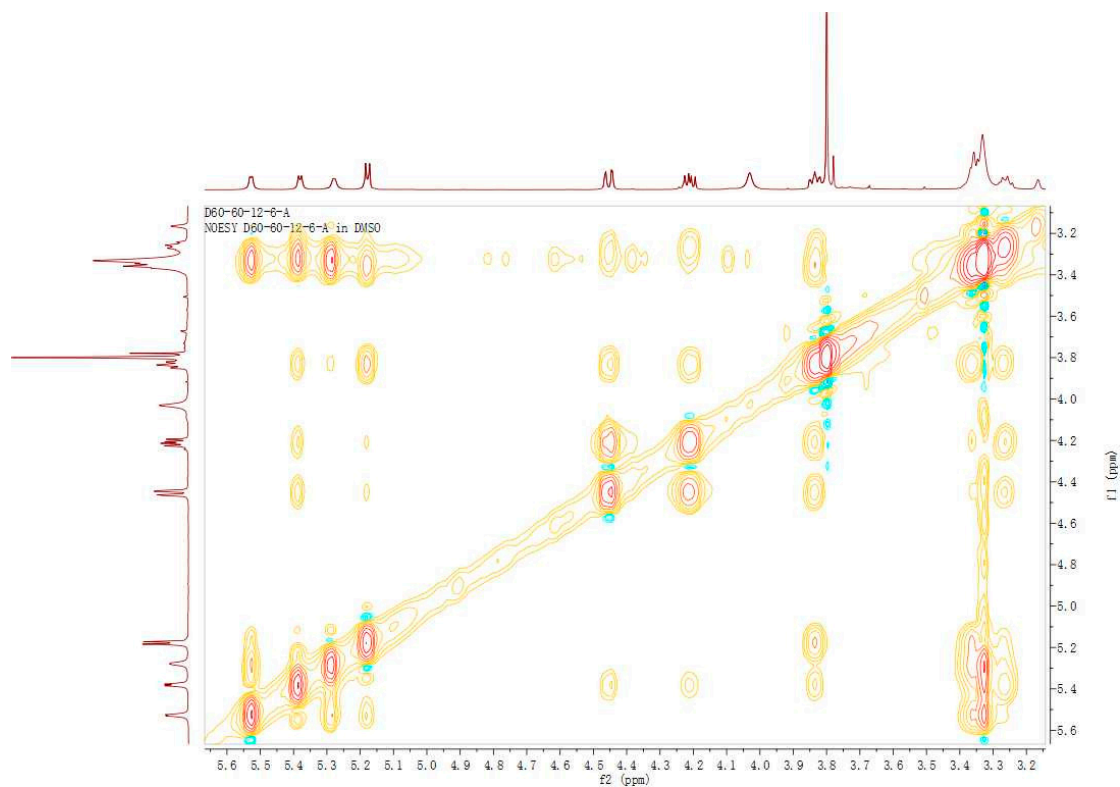


Figure S7. Enlarged NOESY spectrum of the new compound **1**.

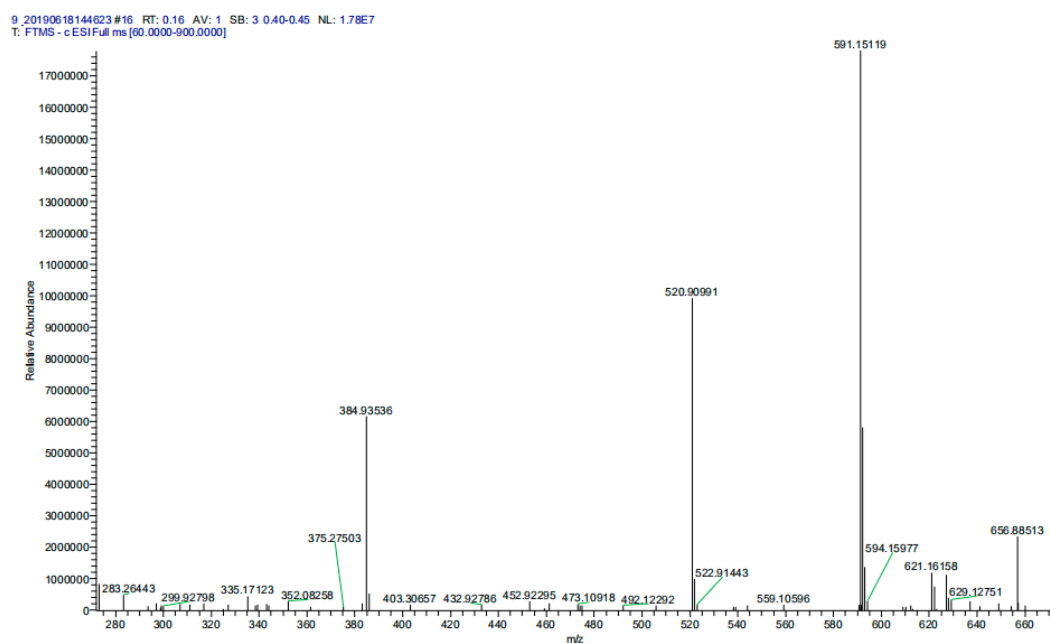


Figure S8. HRESIMS spectrum of the new compound **1**.

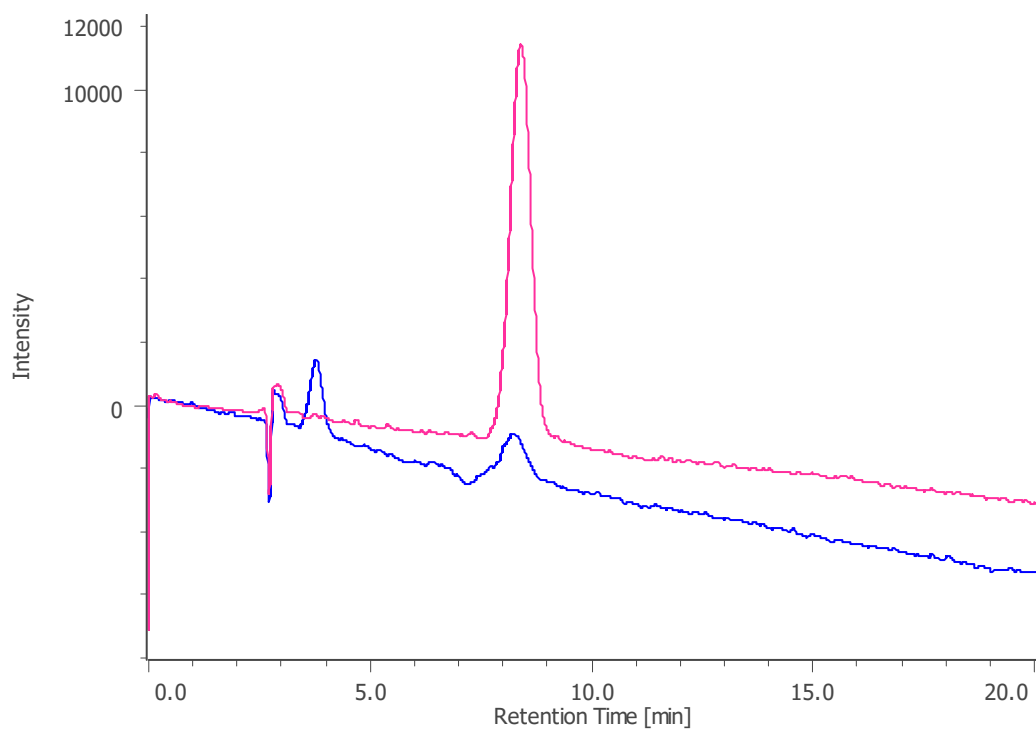


Figure S9. The chromatogram of the glucose standard and hydrolyzation product of **1**

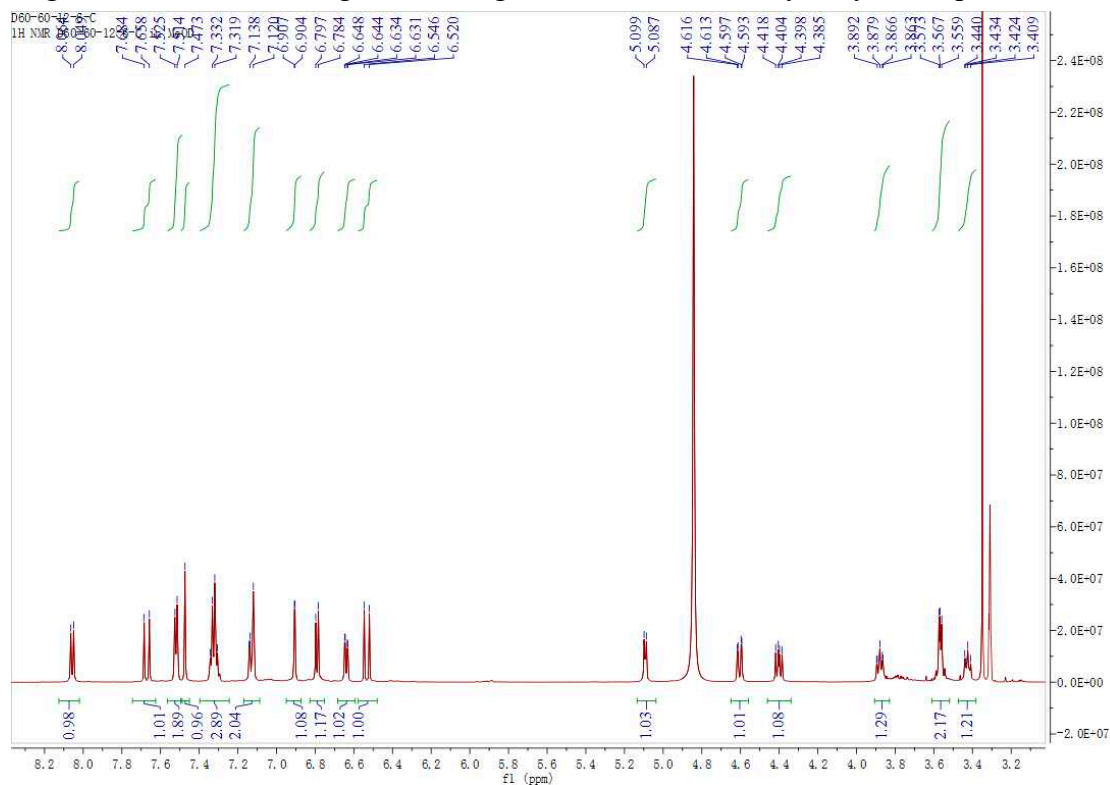


Figure S10. ^1H NMR (600 MHz, CD_3OD) spectrum of the new compound **2**.

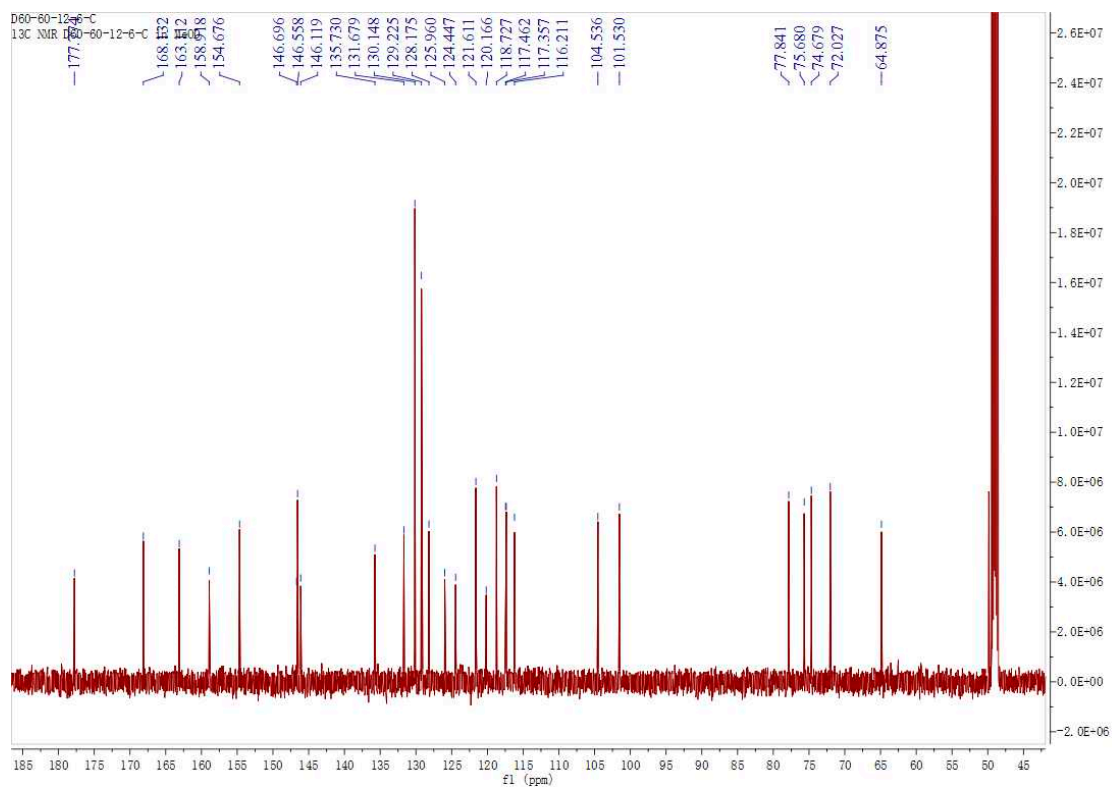


Figure S11. ^{13}C NMR (150 MHz, CD_3OD) spectrum of the new compound **2**.

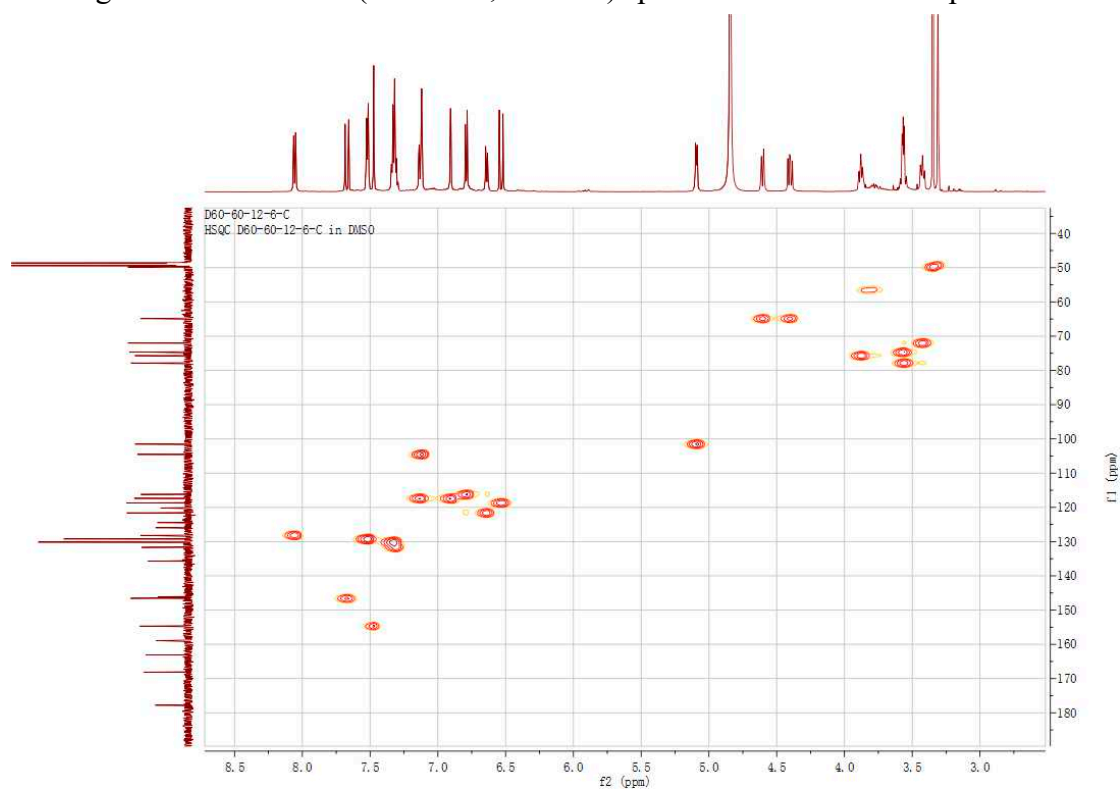


Figure S12. HSQC spectrum of the new compound **2**.

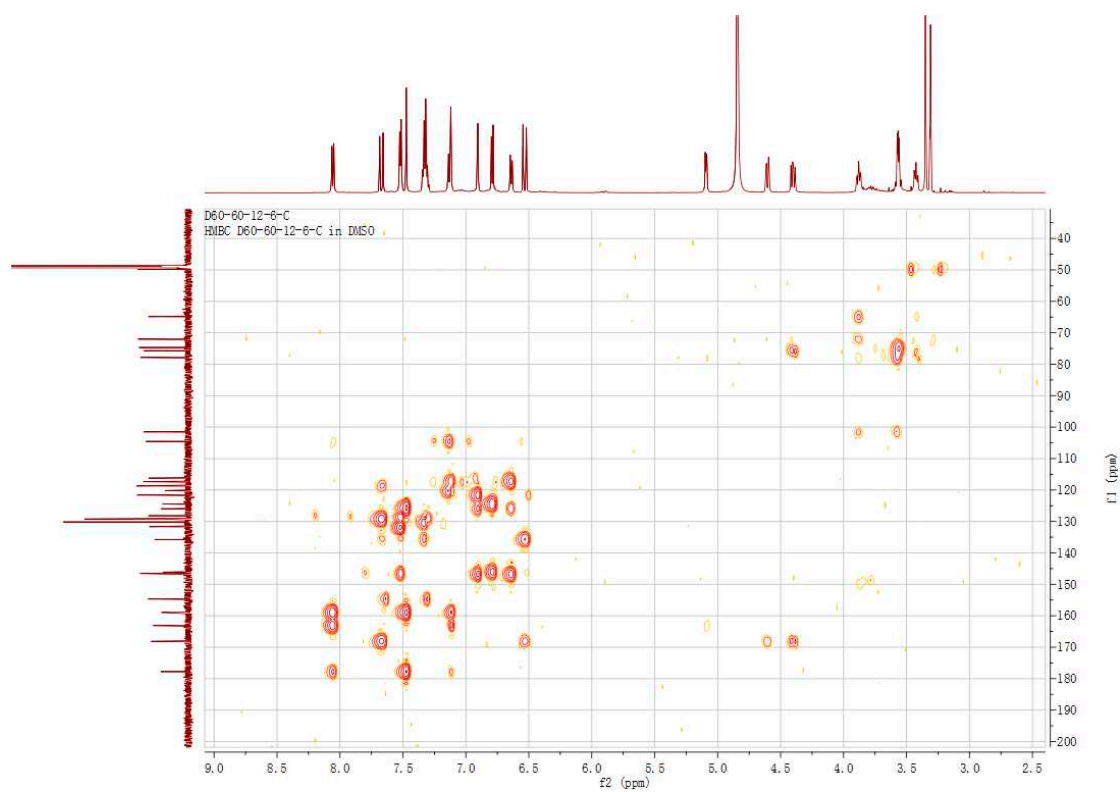


Figure S13. HMBC spectrum of the new compound **2**.

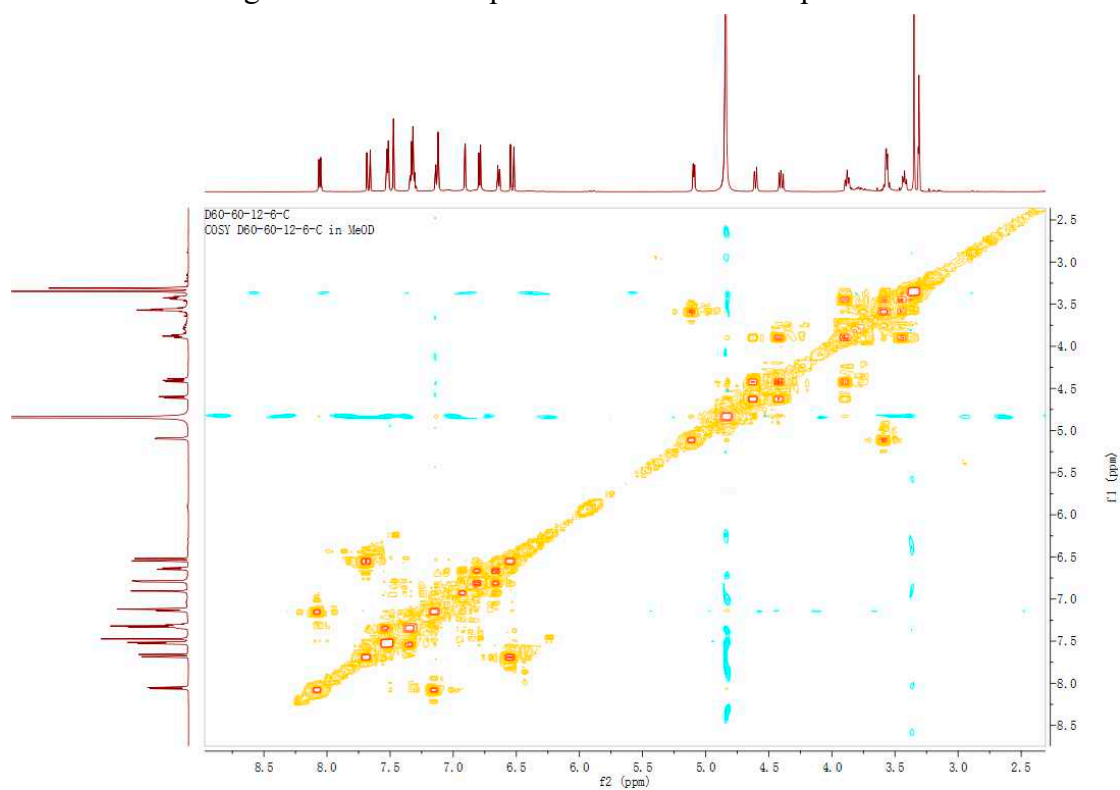


Figure S14. ^1H - ^1H COSY spectrum of the new compound **2**.

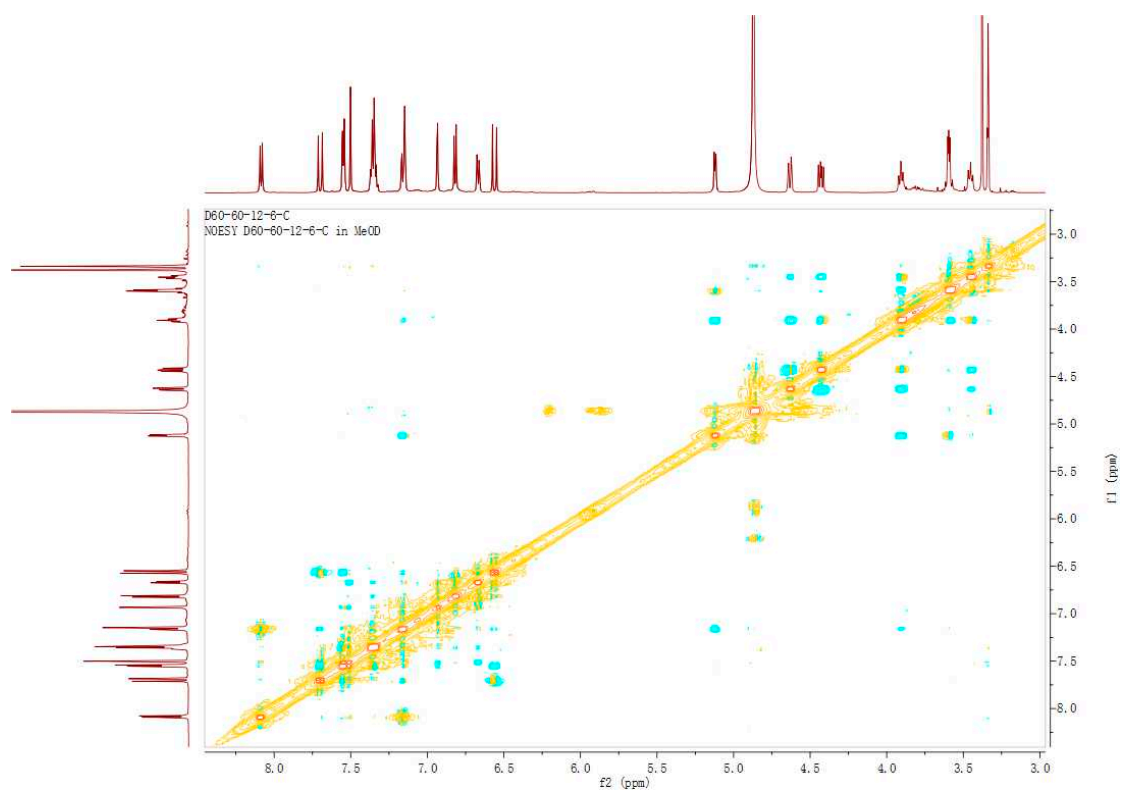


Figure S15. NOESY spectrum of the new compound **2**.

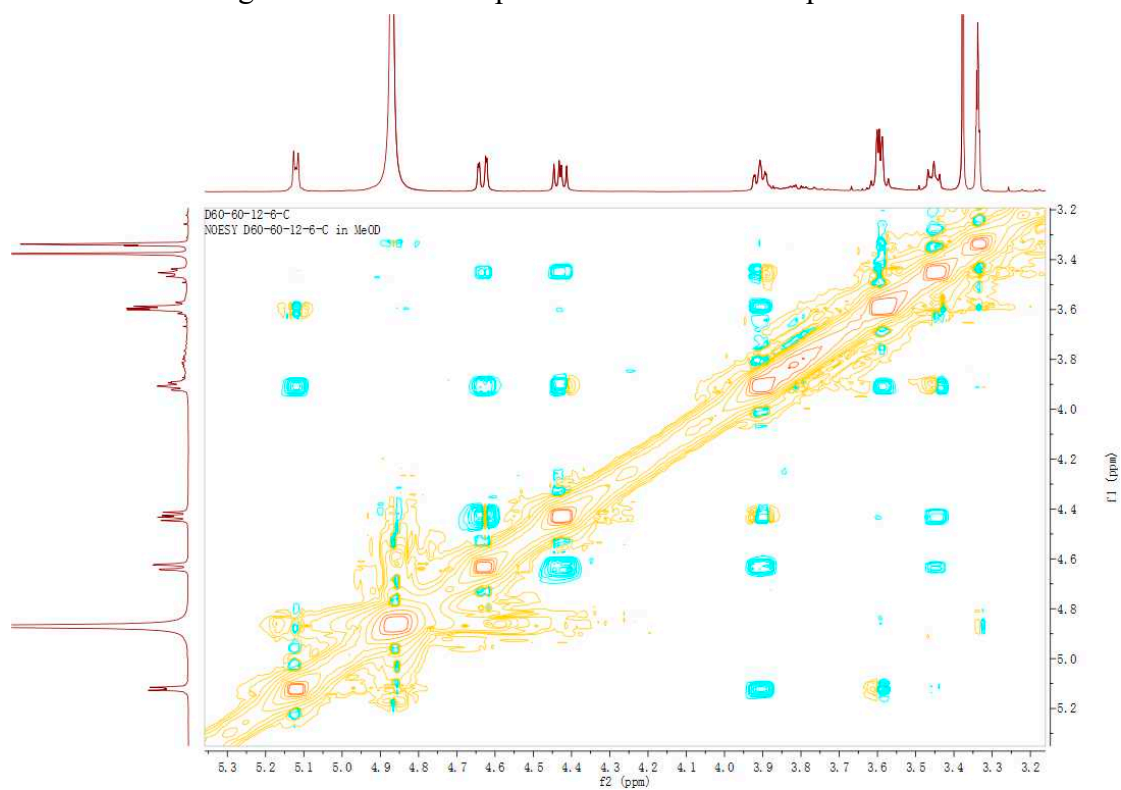


Figure S16. Enlarged NOESY spectrum of the new compound **2**.

6_20190618144303 #16 RT: 0.16 AV: 1 SB: 6 0.43-0.50, 0.53-0.56 NL: 1.99E7
T: FTMS - c-ESIFull.ms [60.0000-900.0000]

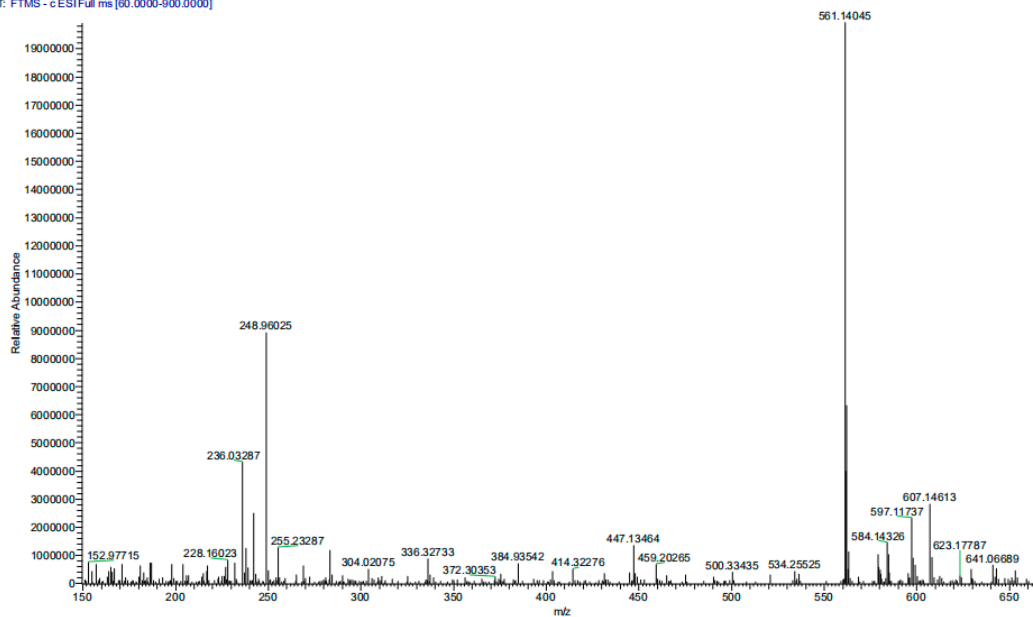


Figure S17. HRESIMS spectrum of the new compound **2**.

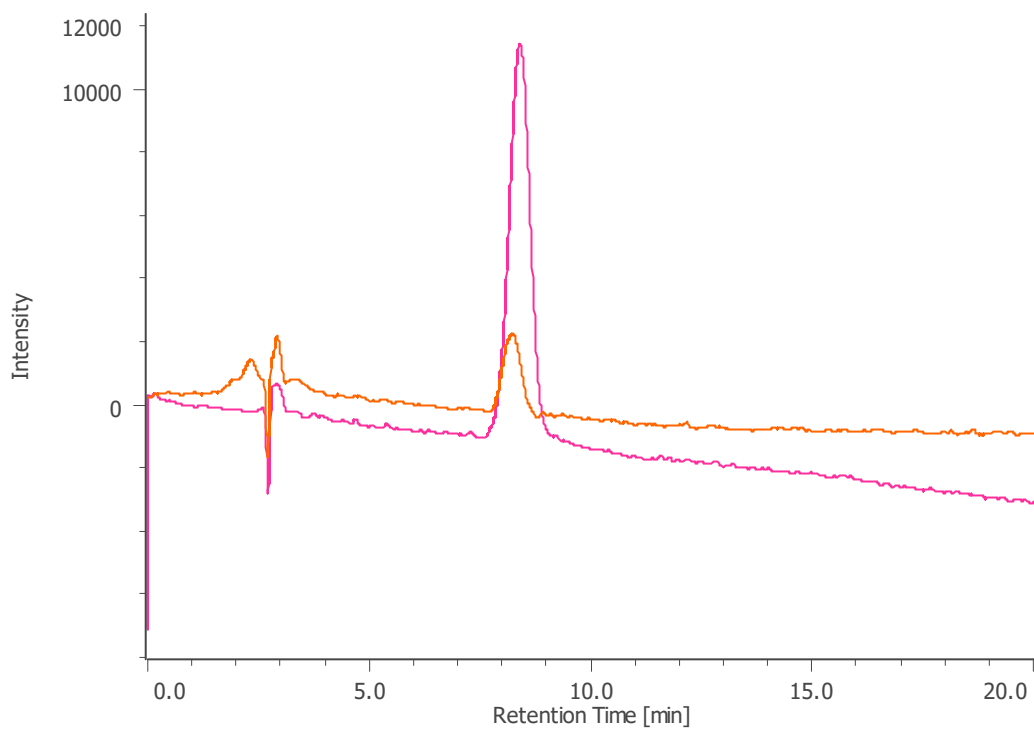


Figure S18. The chromatogram of the glucose standard and hydrolyzation product of

2

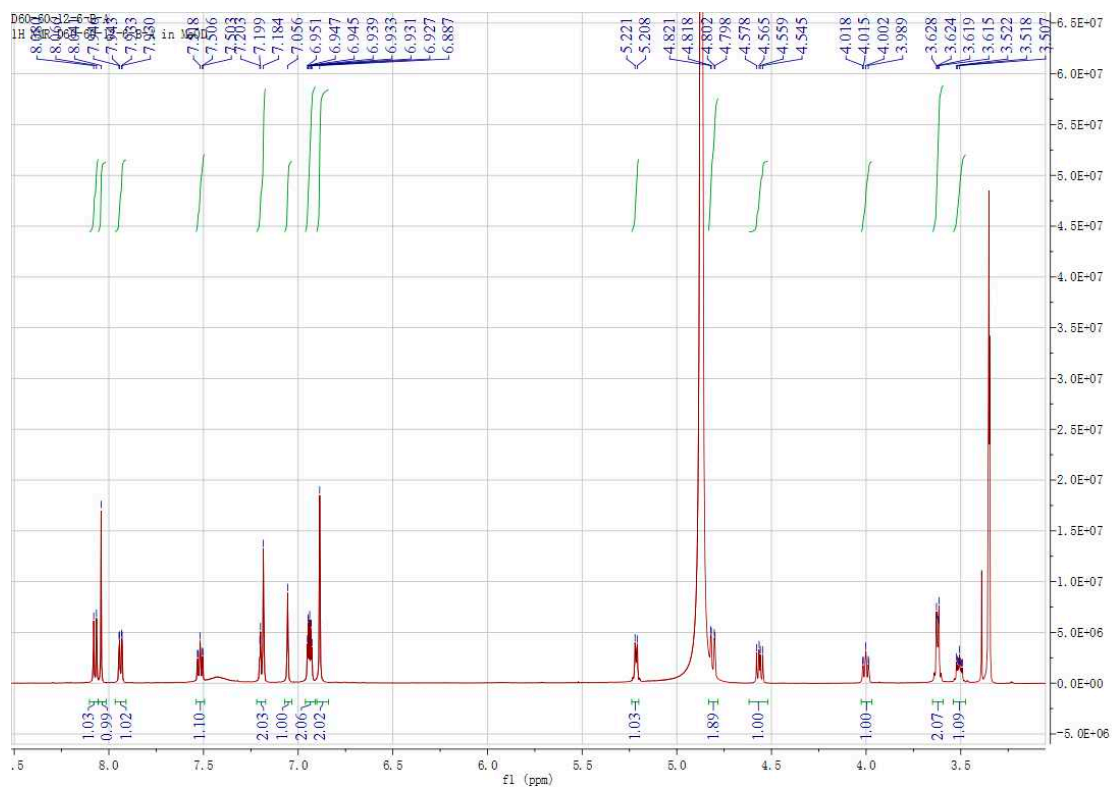


Figure S19. ^1H NMR (600 MHz, CD_3OD) spectrum of the new compound **3**.

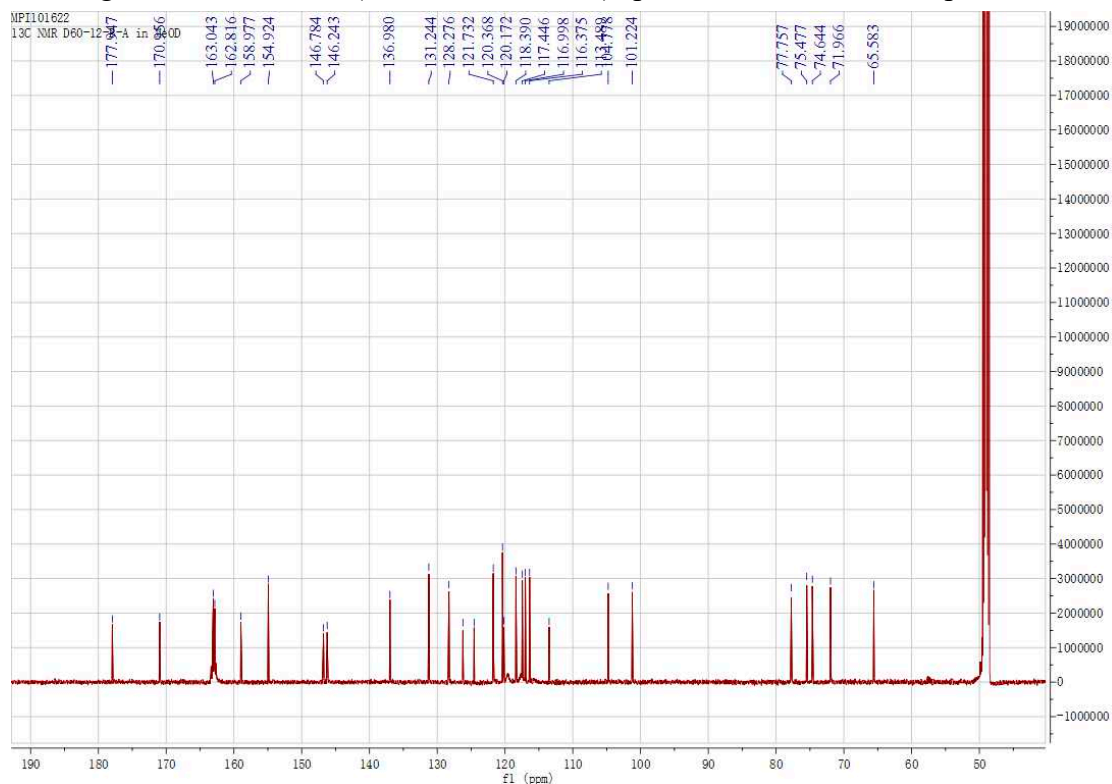


Figure S20. ^{13}C NMR (150 MHz, CD_3OD) spectrum of the new compound **3**.

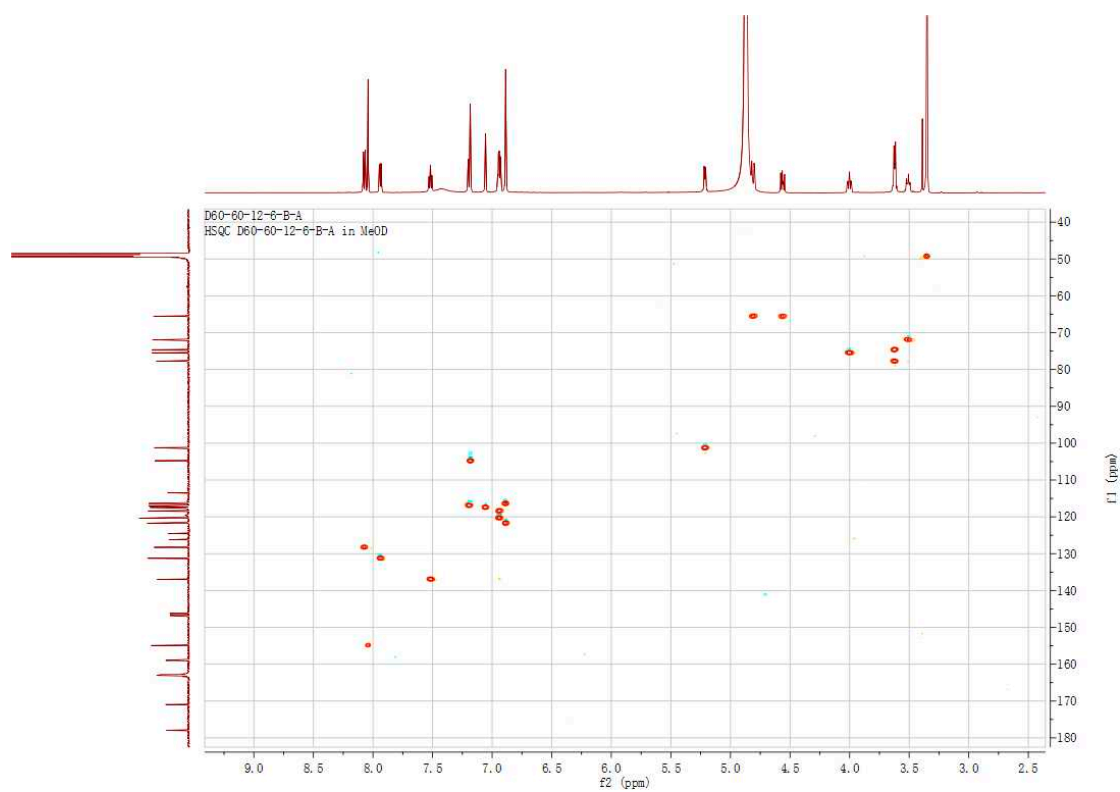


Figure S21. HSQC spectrum of the new compound **3**.

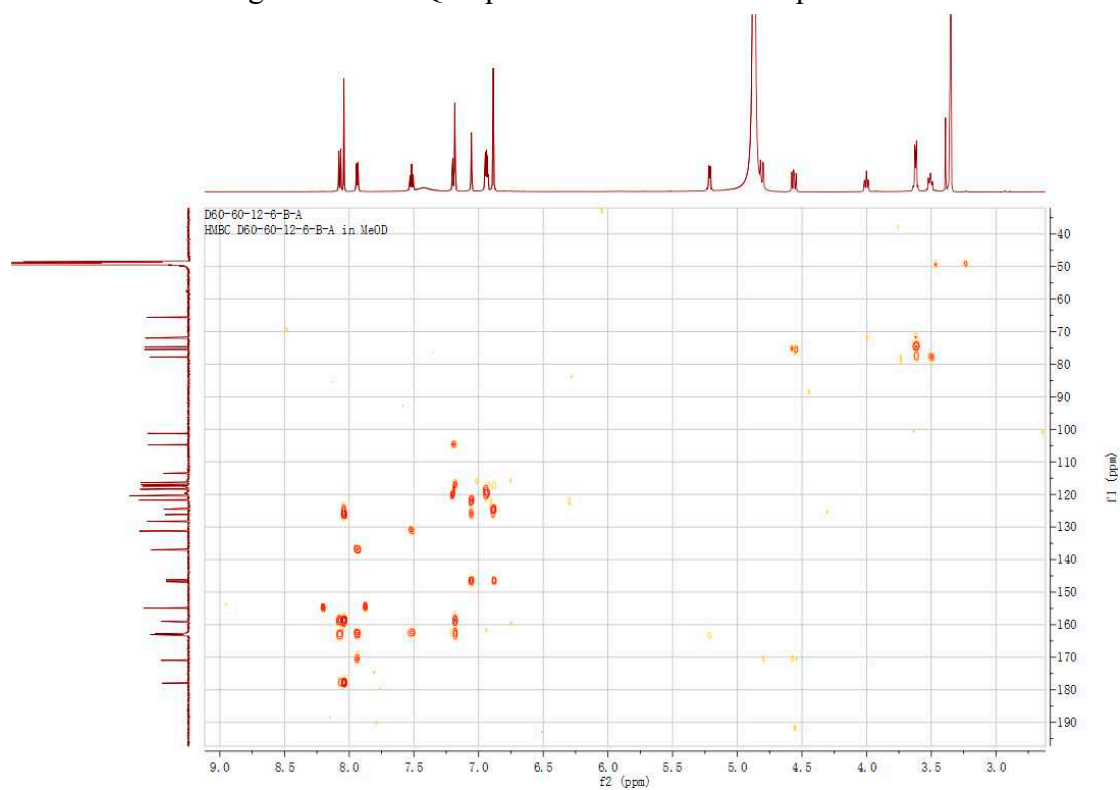


Figure S22. HMBC spectrum of the new compound **3**.

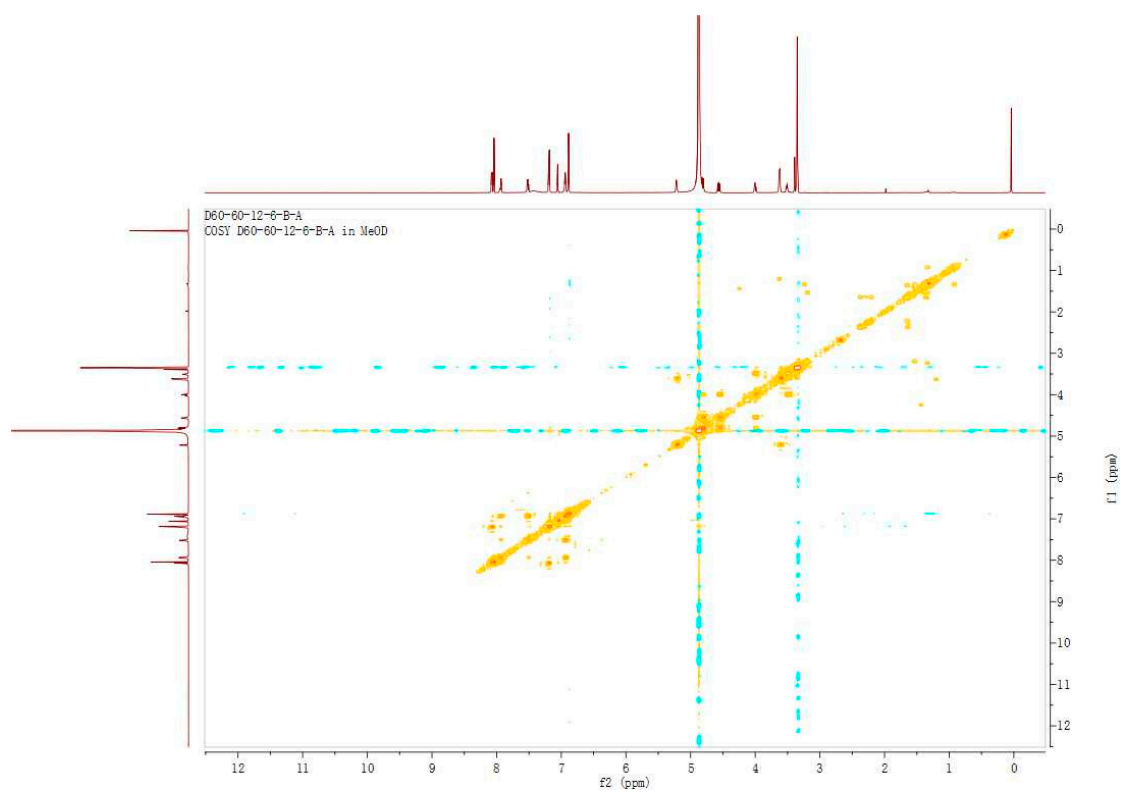


Figure S23. ¹H-¹H COSY spectrum of the new compound **3**.

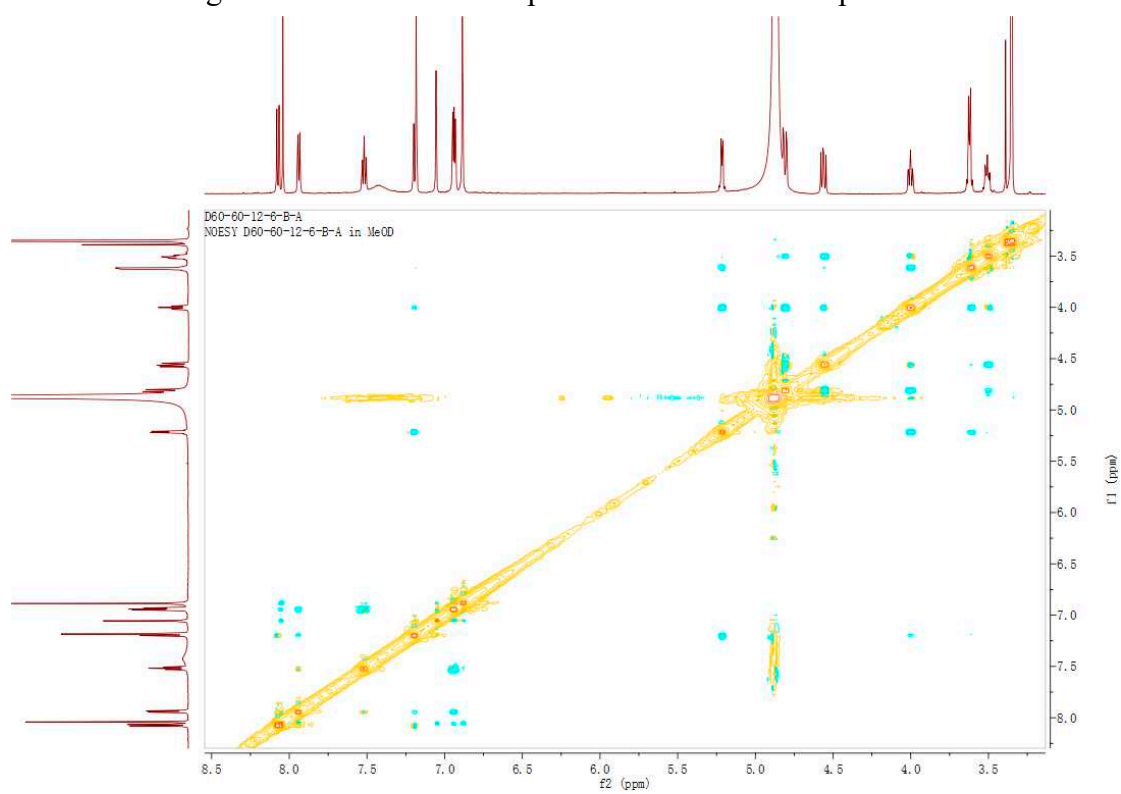


Figure S24. NOESY spectrum of the new compound **3**.

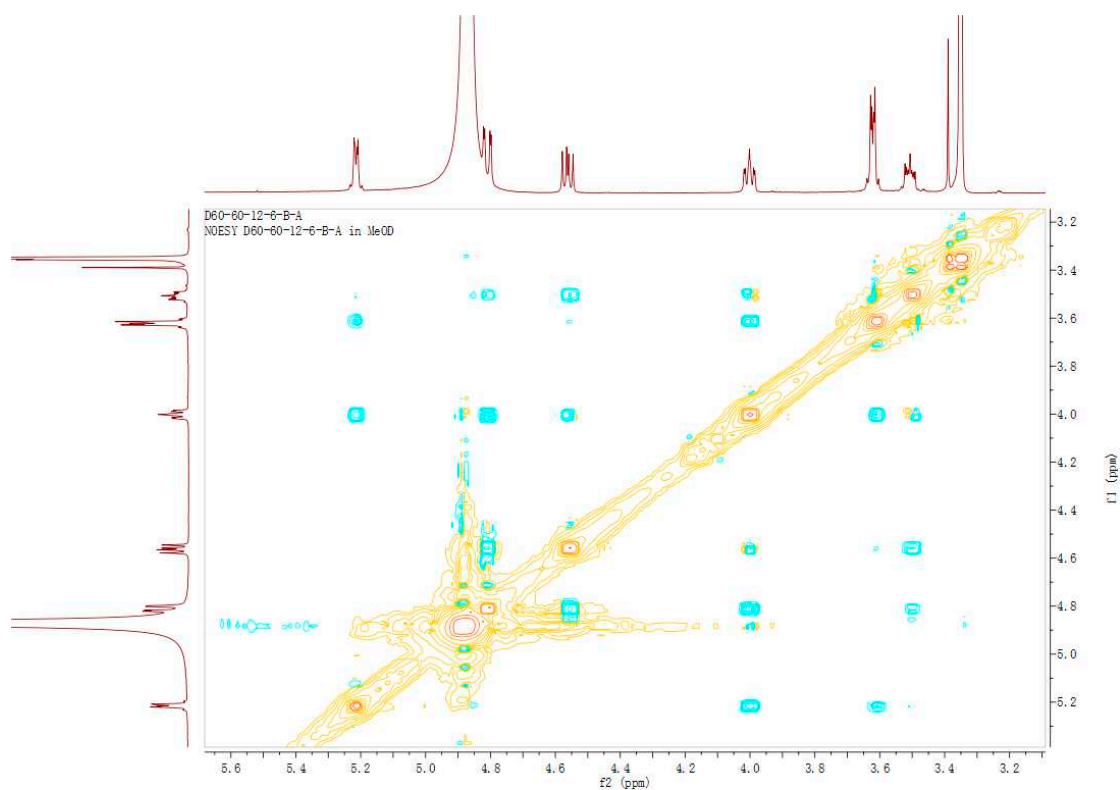


Figure S25. Enlarged NOESY spectrum of the new compound **3**.

7_20190618144941 #15 RT: 0.15 AV: 1 SB: 22 0.65-0.84, 1.01-1.24 NL: 1.56E8
T: FTMS + c ESI Fullms [0.0000-900.0000]

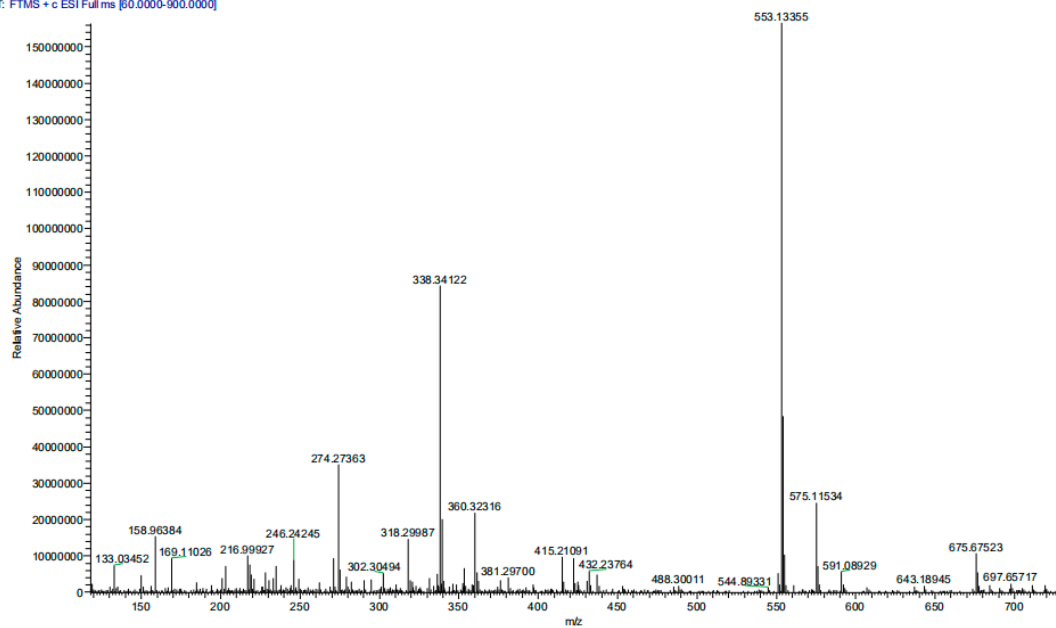


Figure S26. HRESIMS spectrum of the new compound **3**.

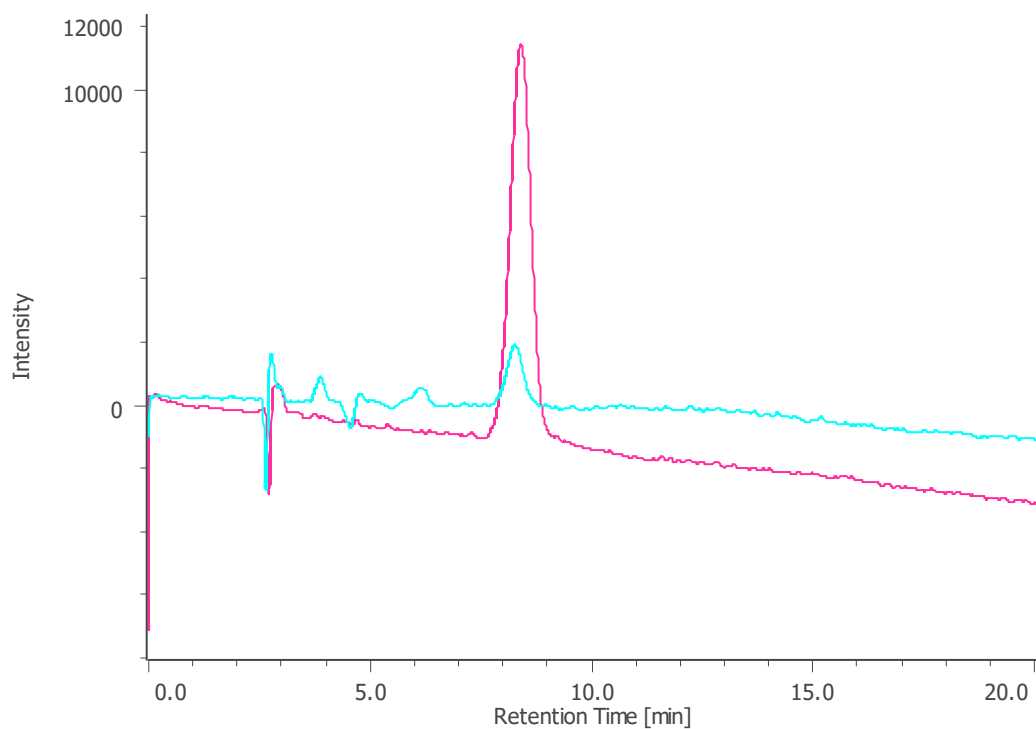


Figure S27. The chromatogram of the glucose standard and hydrolyzation product of

3

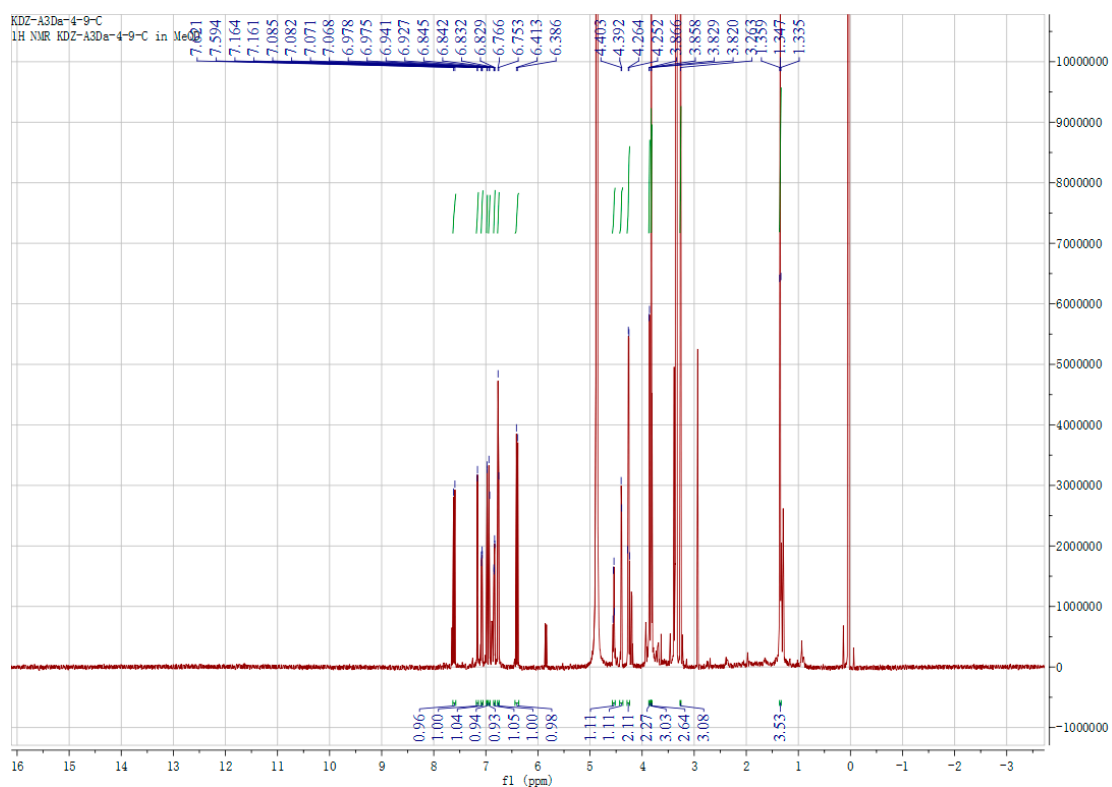


Figure S28. ^1H NMR (600 MHz, CD_3OD) spectrum of the new compound **4**.

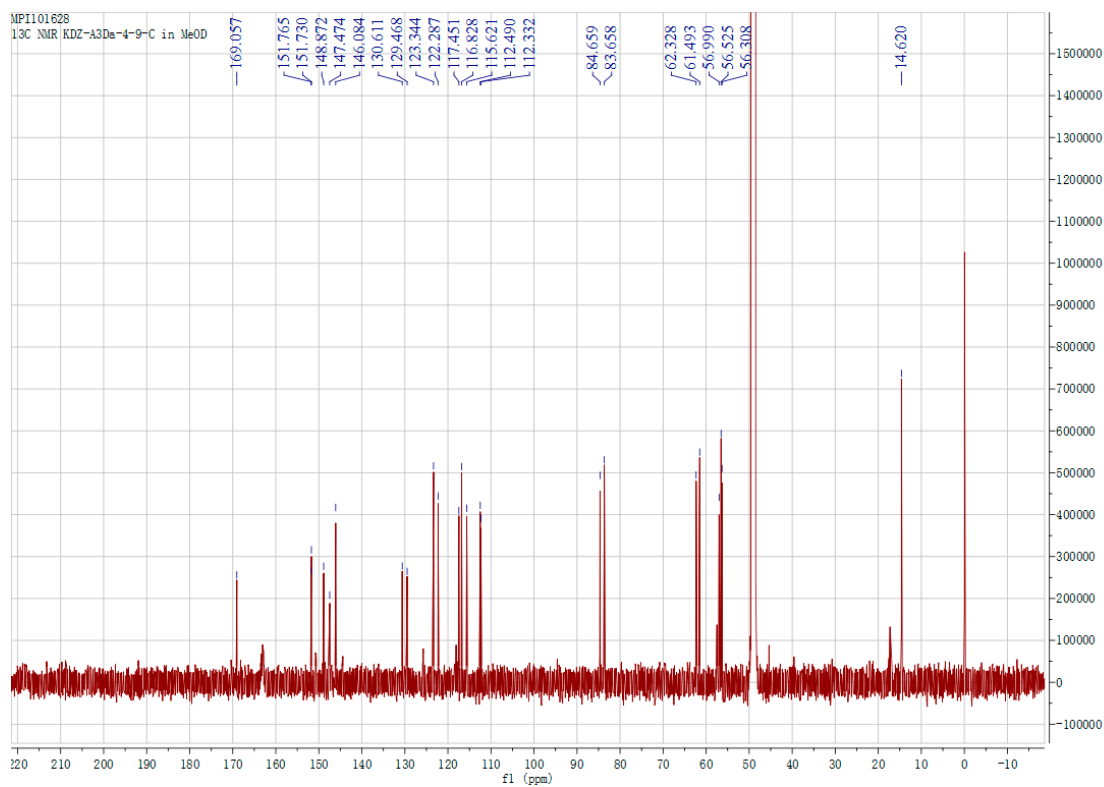


Figure S29. ¹³C NMR (150 MHz, CD₃OD) spectrum of the new compound **4**.

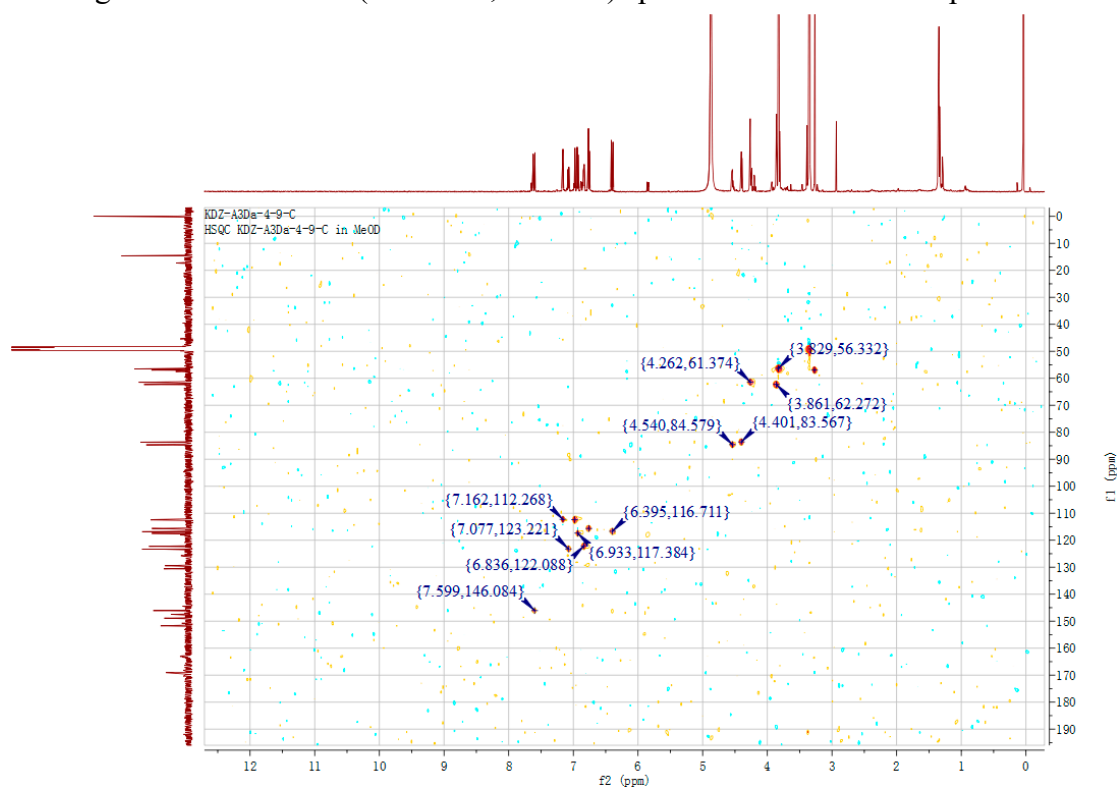


Figure S30. HSQC spectrum of the new compound **4**.

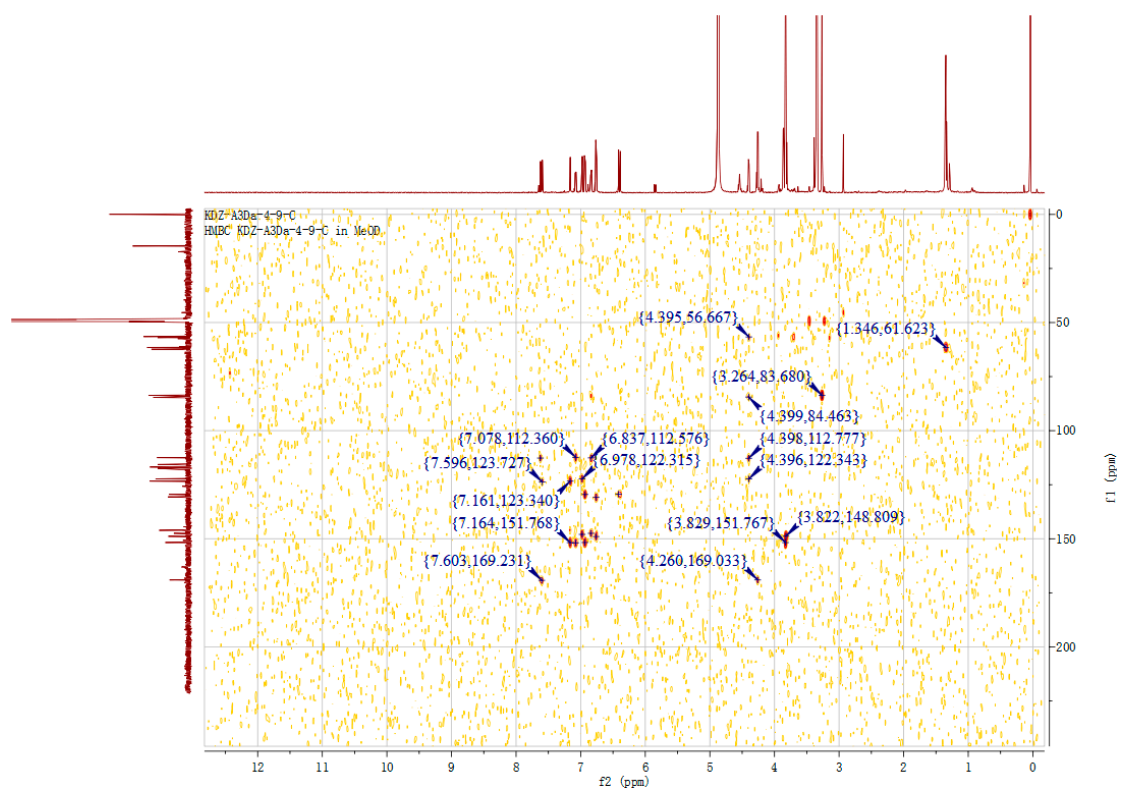


Figure S31. HMBC spectrum of the new compound 4.

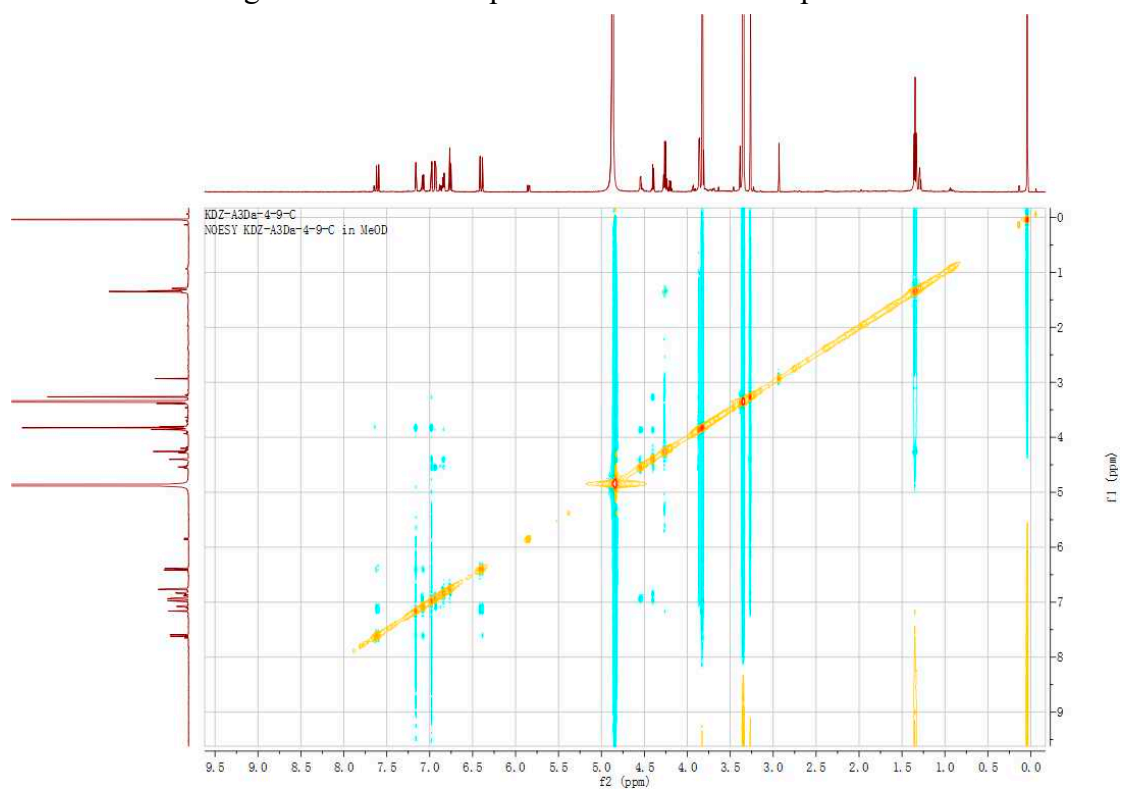


Figure S32. NOESY spectrum of the new compound 4.

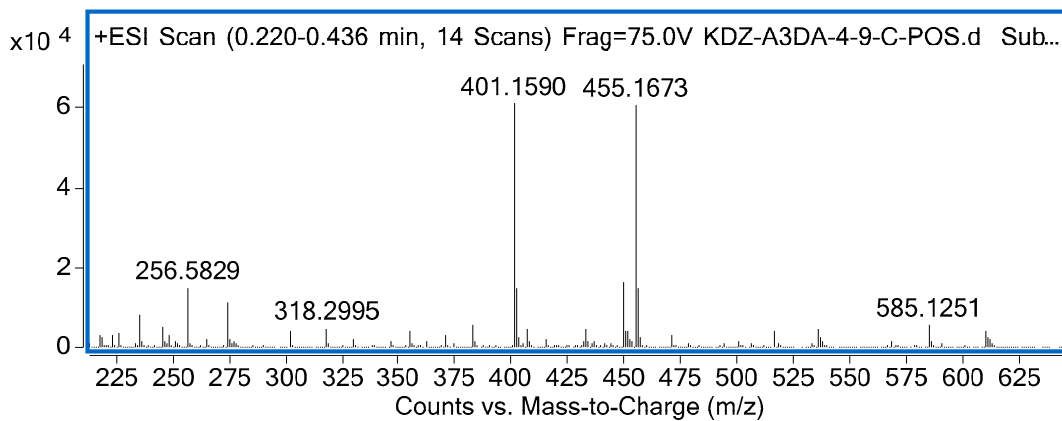


Figure S33. HRESIMS spectrum of the new compound 4.

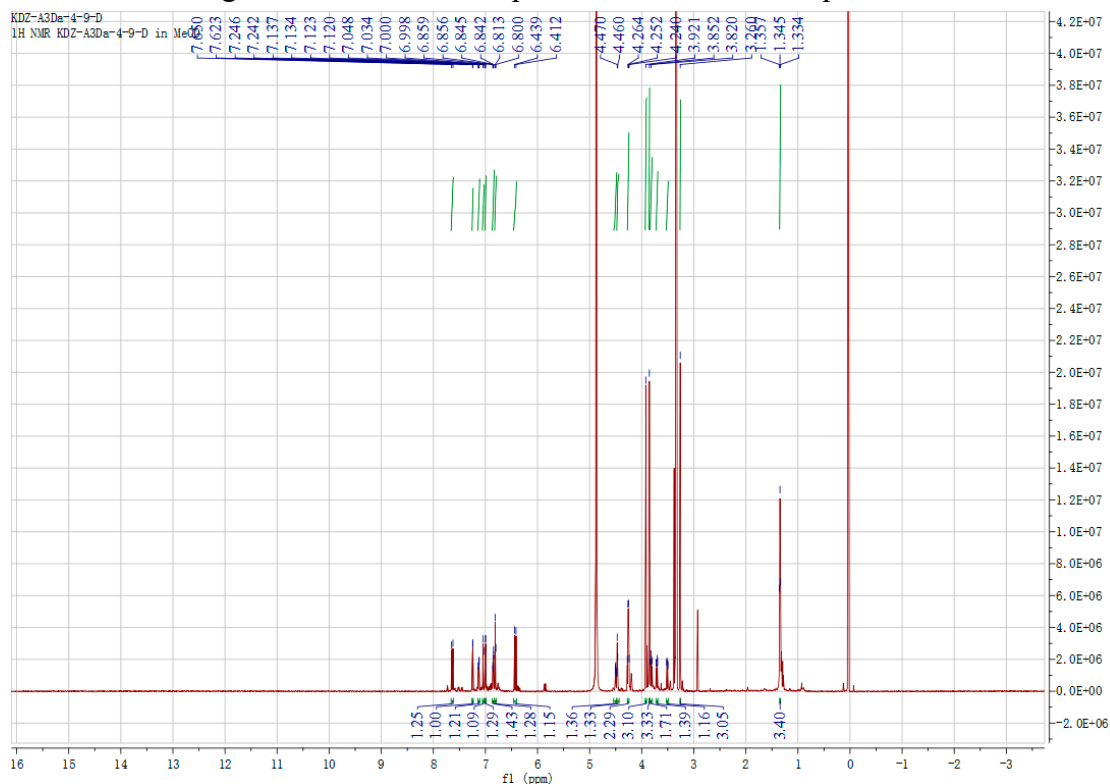


Figure S34. ¹H NMR (600 MHz, CD₃OD) spectrum of the new compound 5.

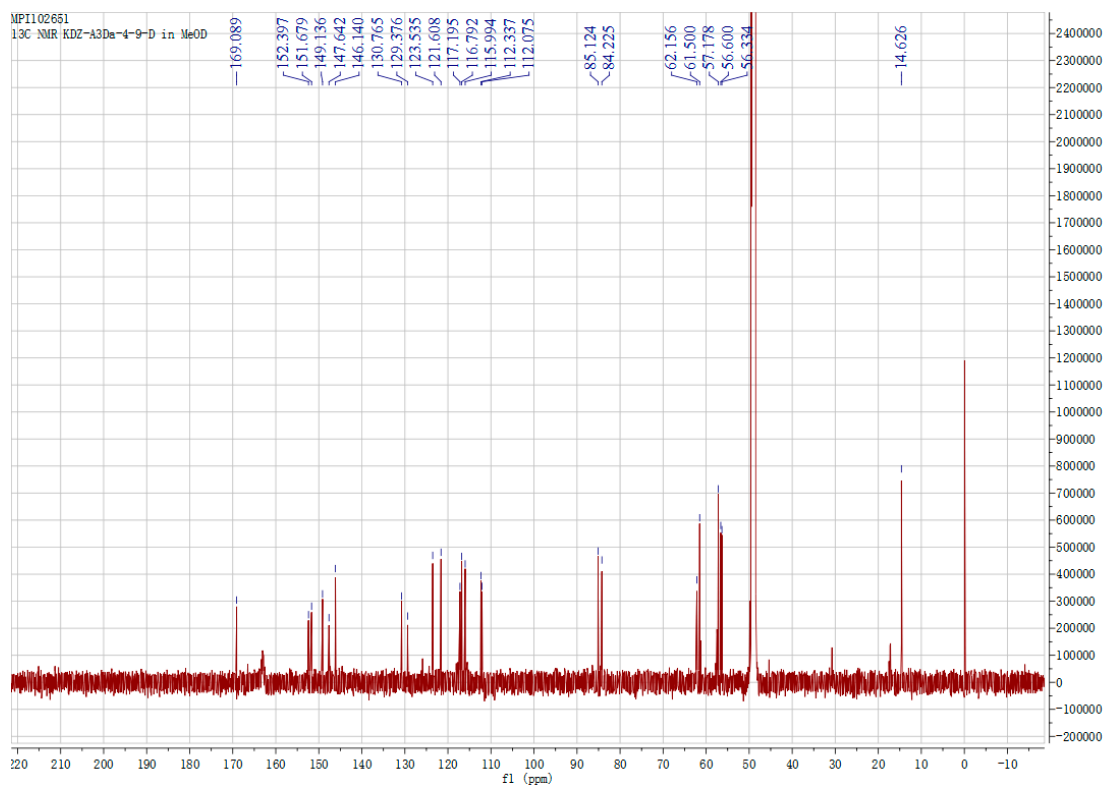


Figure S35. ¹³C NMR (150 MHz, CD₃OD) spectrum of the new compound **5**.

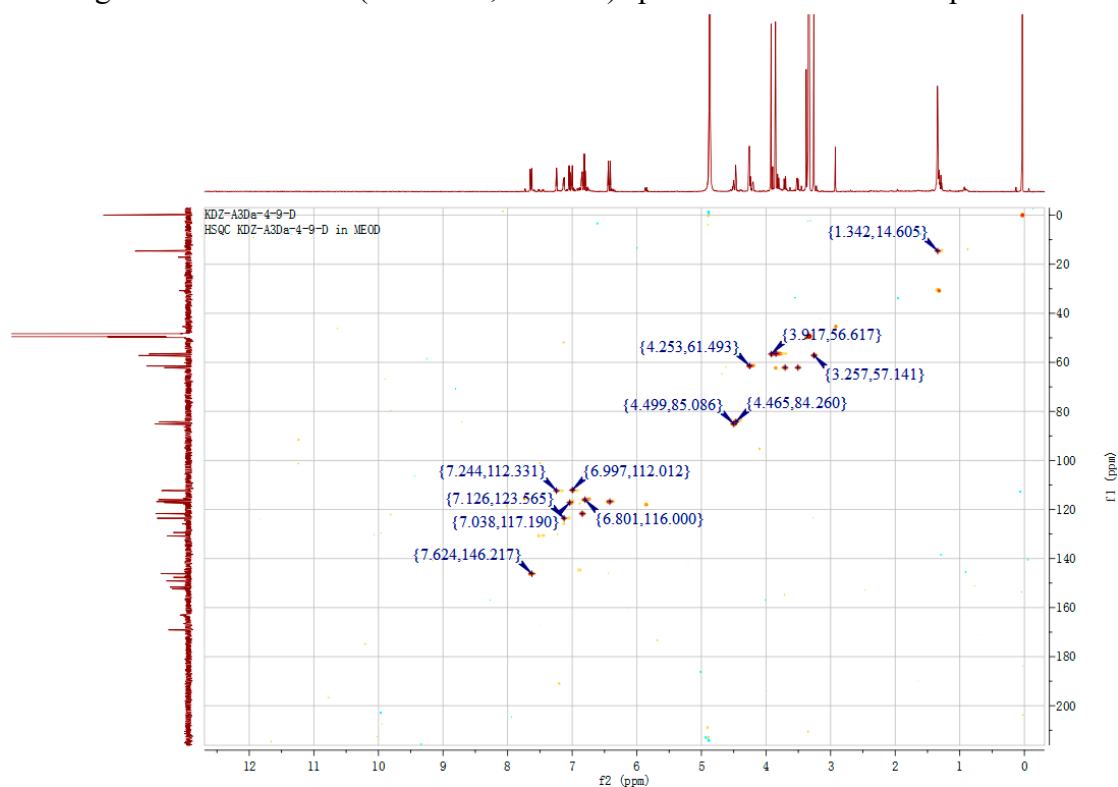


Figure S36. HSQC spectrum of the new compound **5**.

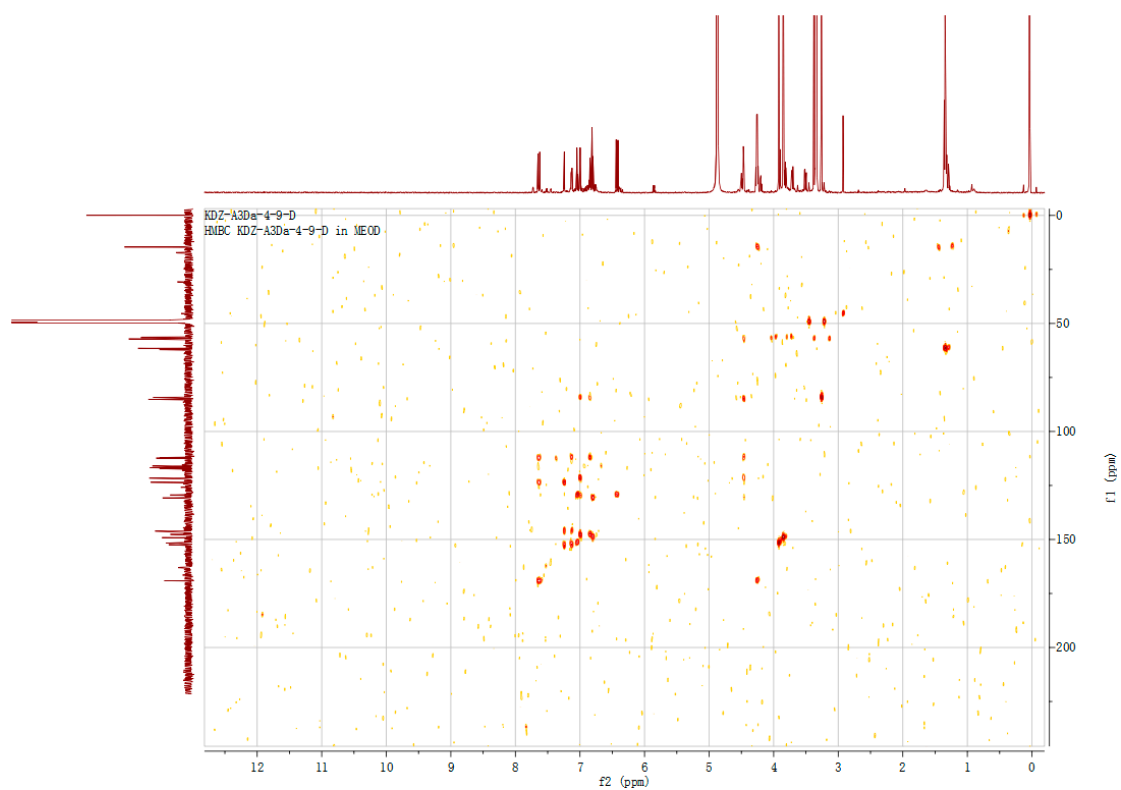


Figure S37. HMBC spectrum of the new compound **5**.

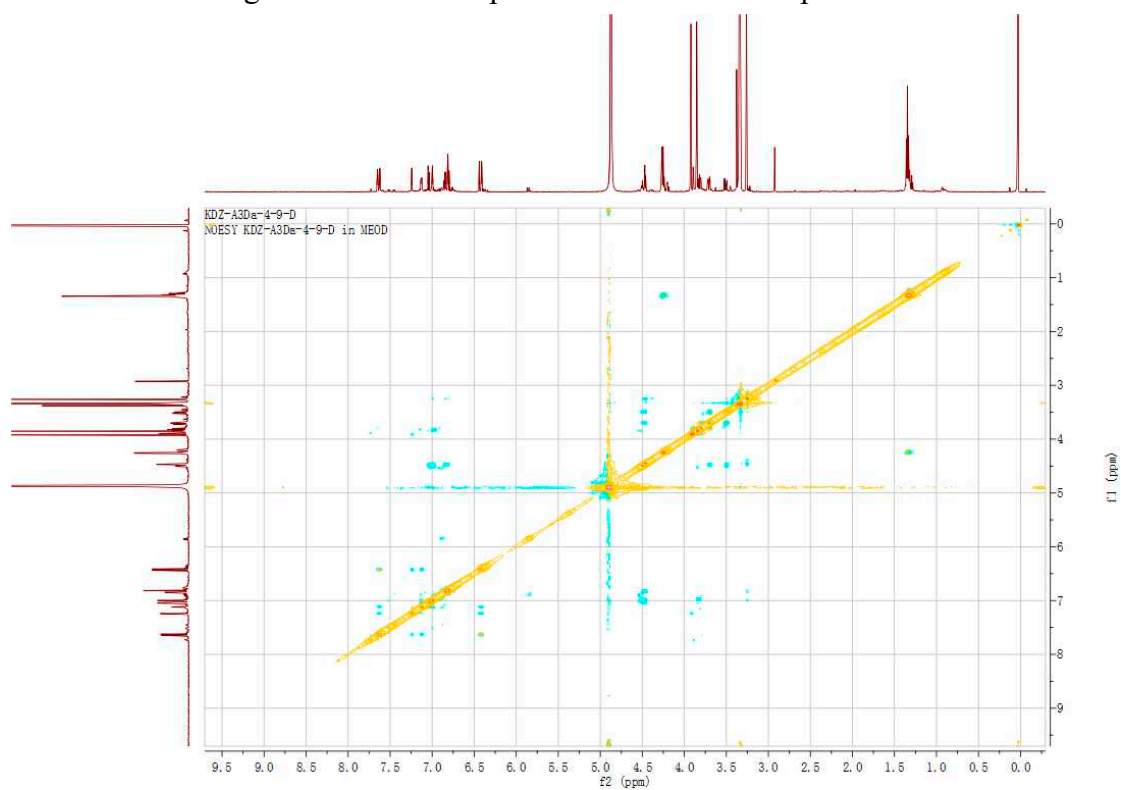


Figure S38. NOESY spectrum of the new compound **5**.

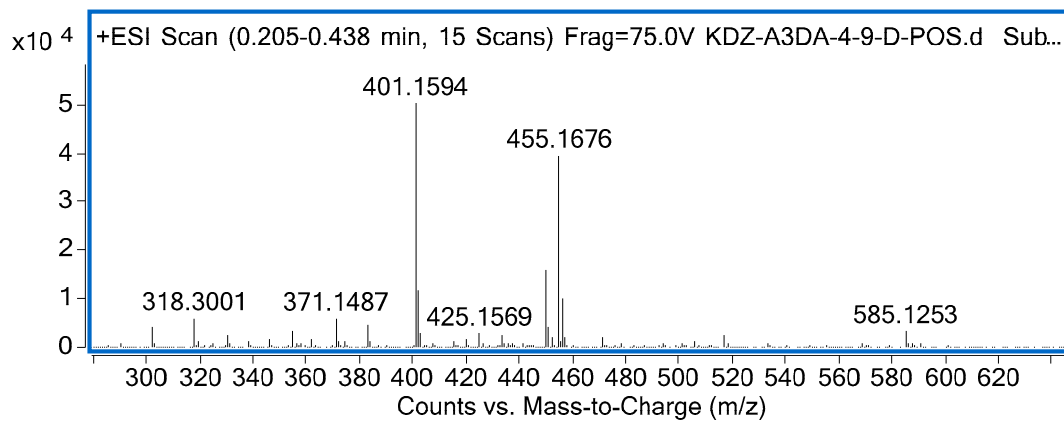


Figure S39. HRESIMS spectrum of the new compound **5**.