Supporting Information to:

Synthesis of glycosidic (1''→3',4' and 6) site-isomers of neomycin B and their effect on RNA- and DNA-triplex stability

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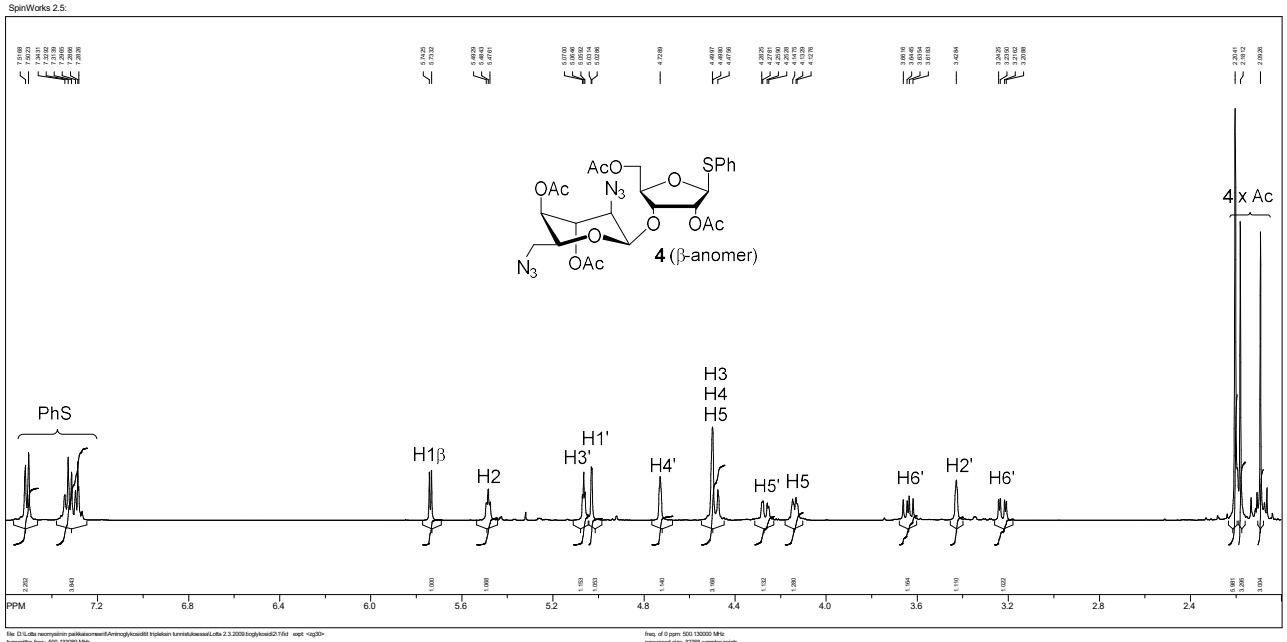


Figure S1. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **4** (β-anomer).

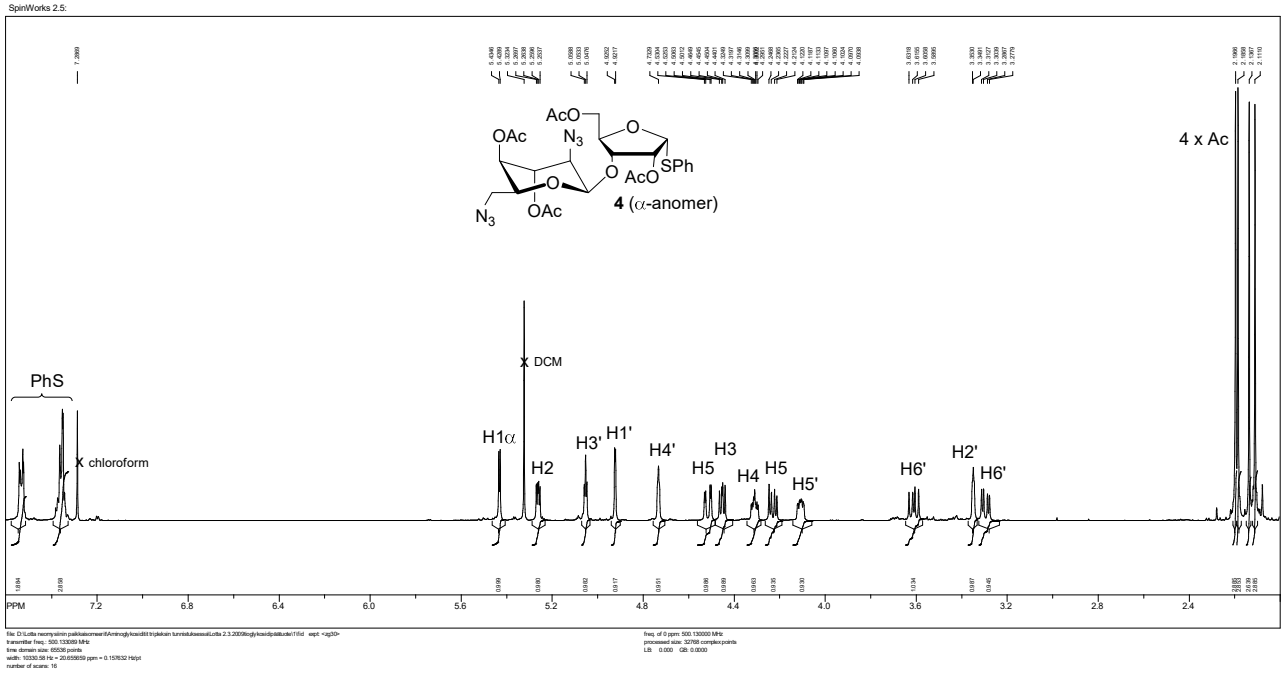


Figure S2. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **4** (α-anomer).

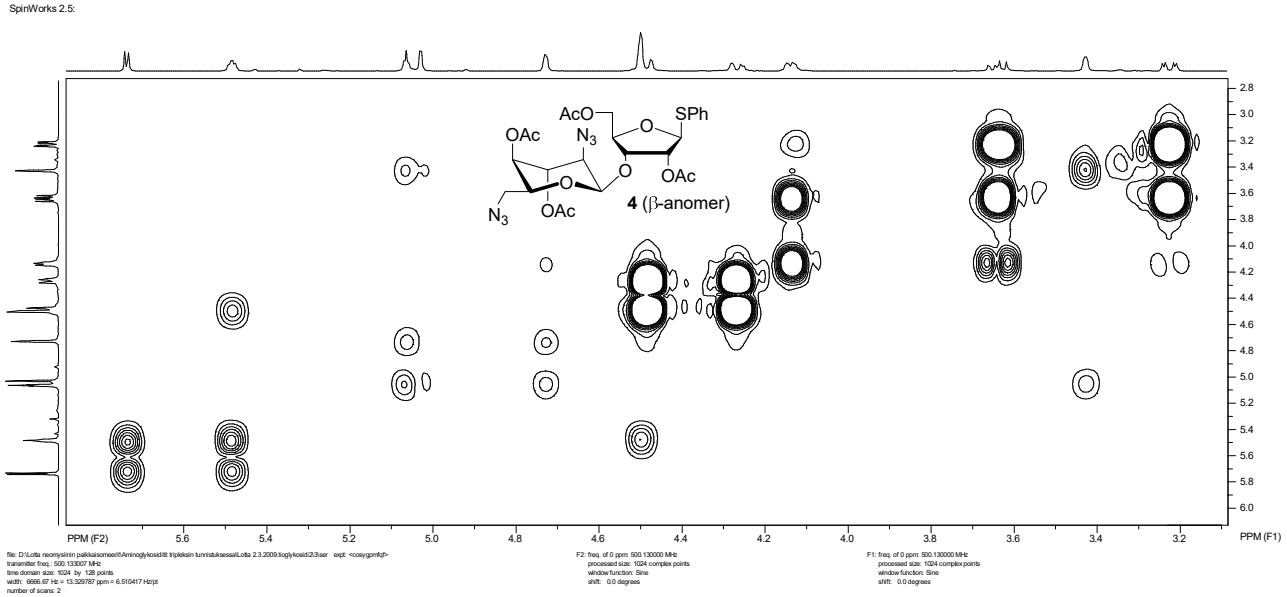


Figure S3. COSY spectrum of **4** (β-anomer).

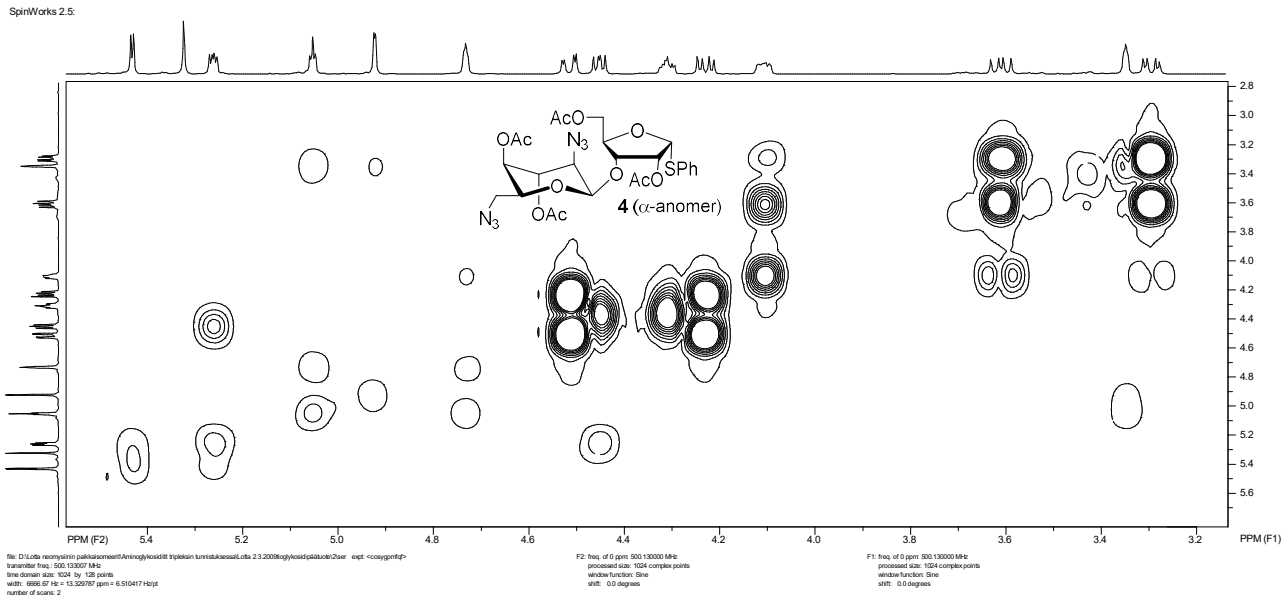


Figure S4. COSY spectrum of **4** (α-anomer).

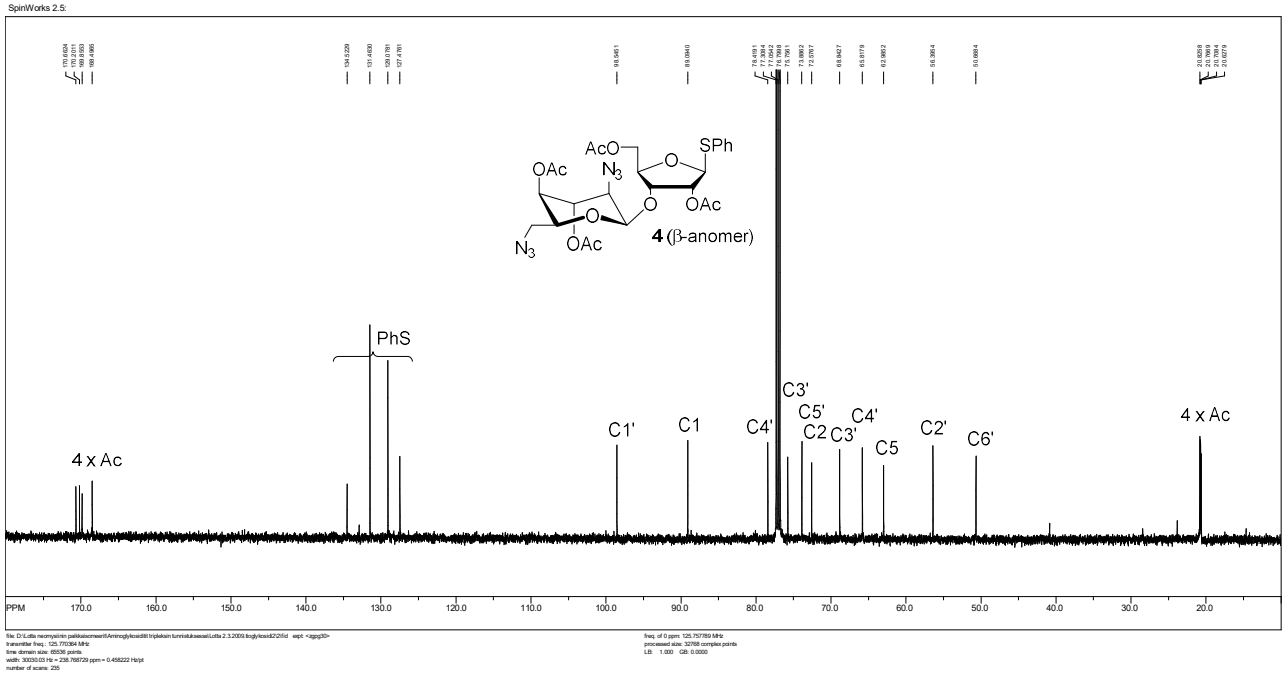


Figure S5. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **4** (β-anomer).

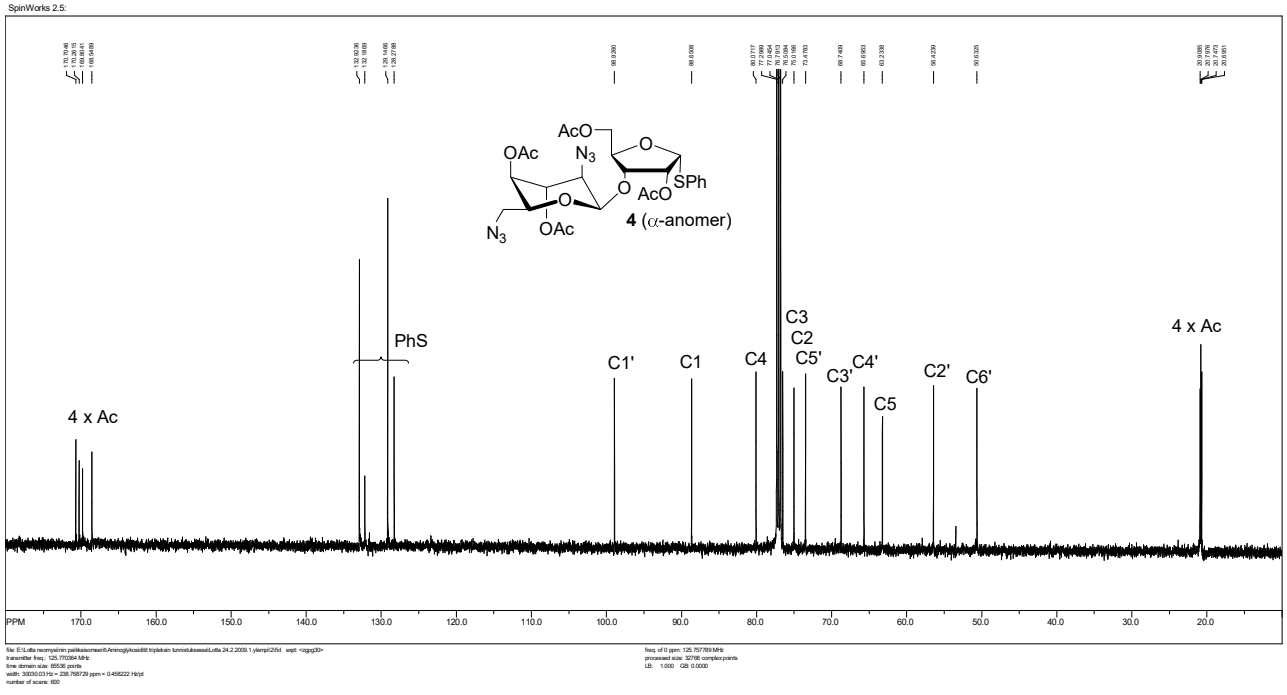


Figure S6. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **4** (α-anomer).

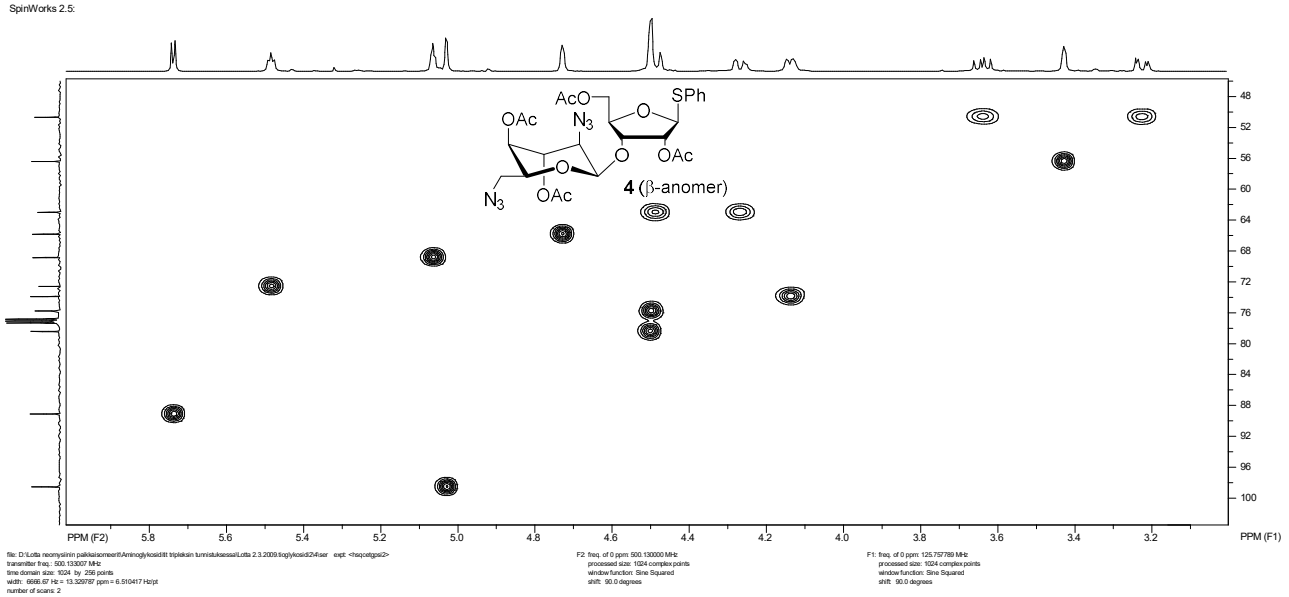


Figure S7. HSQC spectrum of **4** (β-anomer).

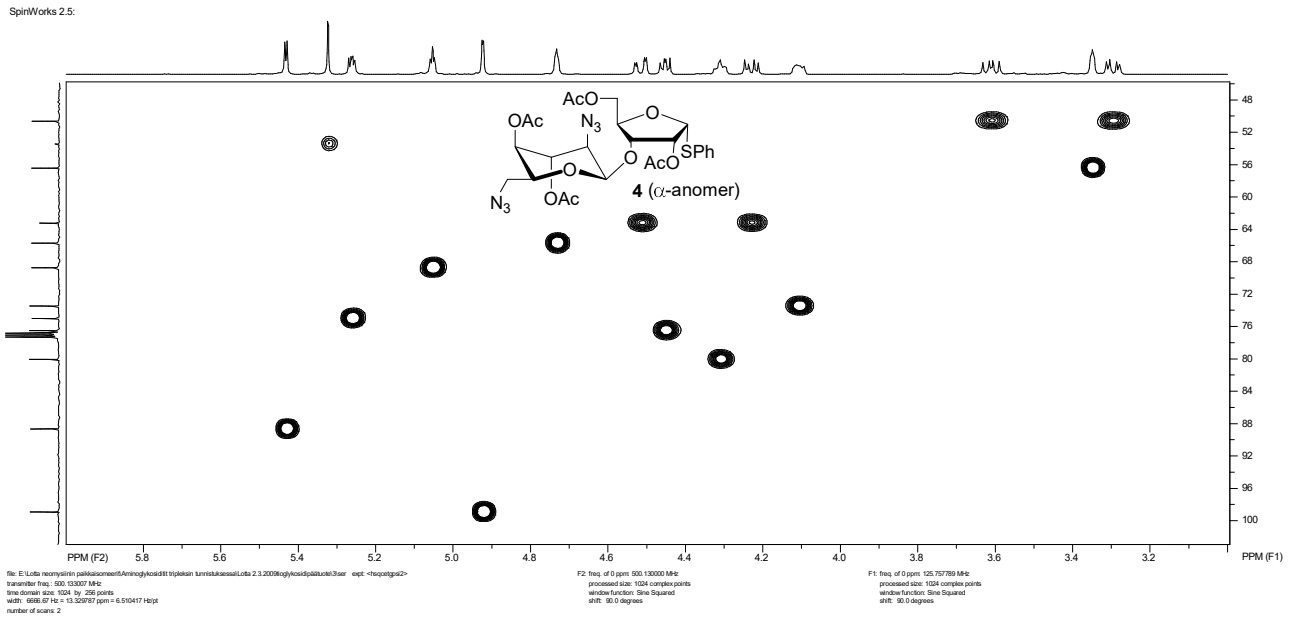


Figure S8. HSQC spectrum of **4** (α-anomer).

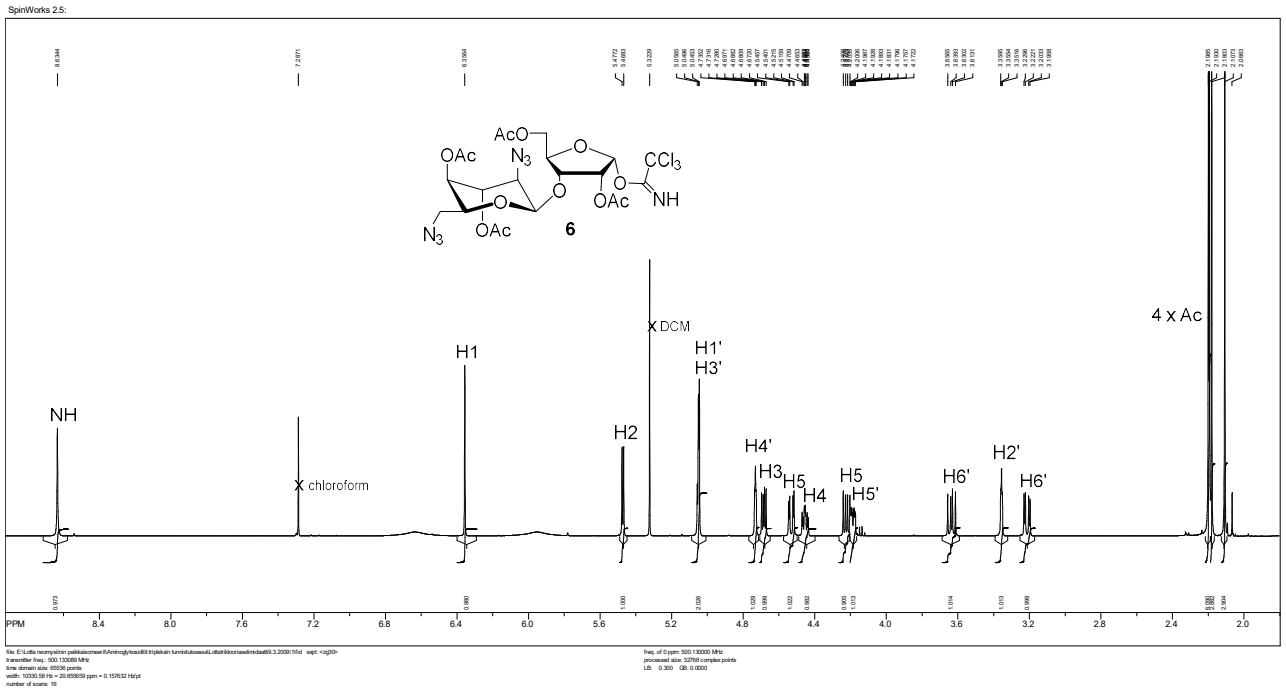


Figure S9. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **6**.

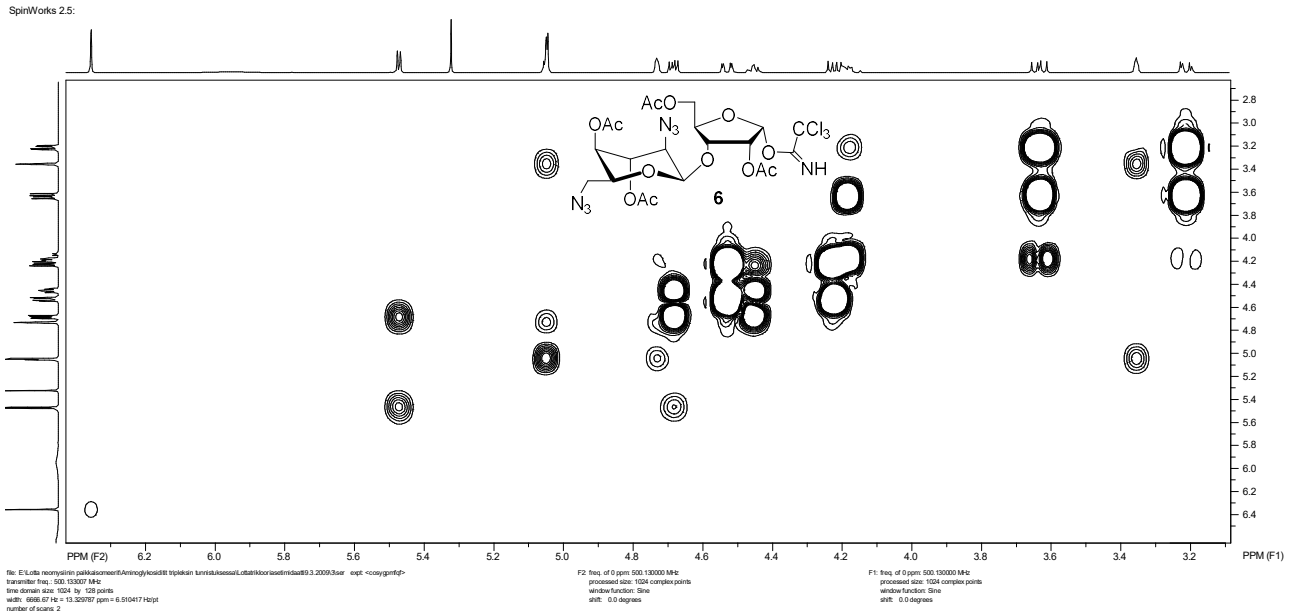


Figure S10. COSY-spectrum of **6**.

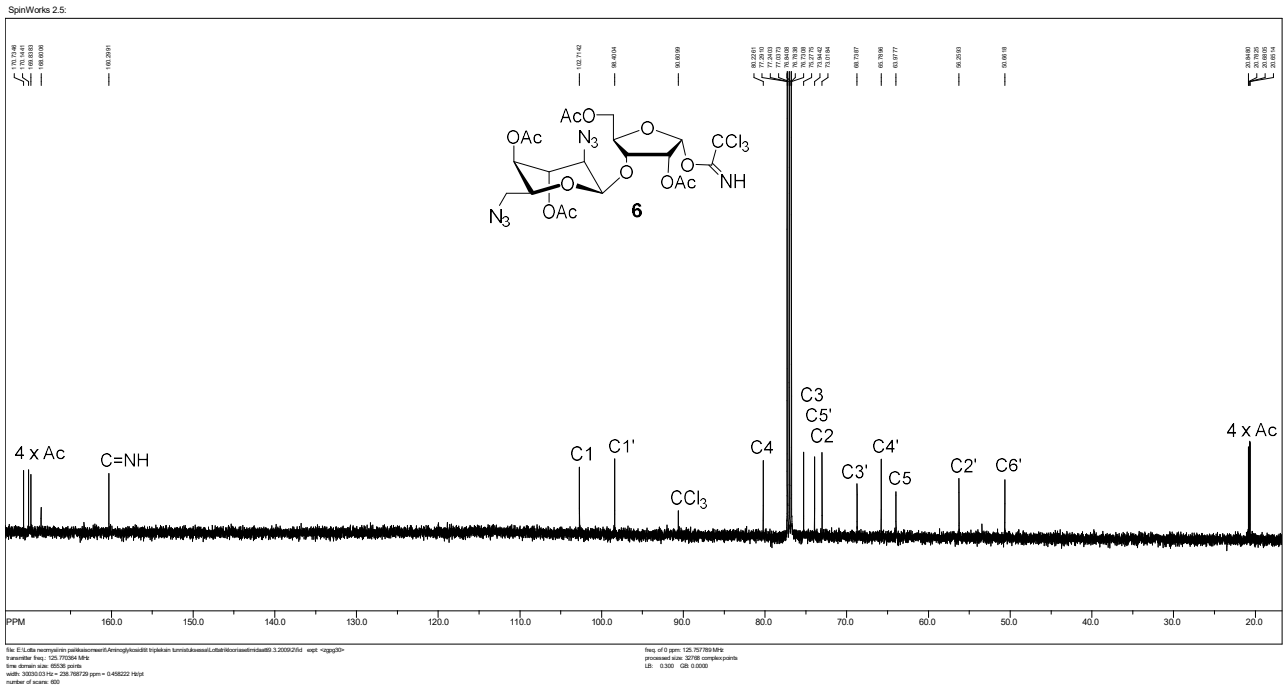


Figure S11. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **6**.

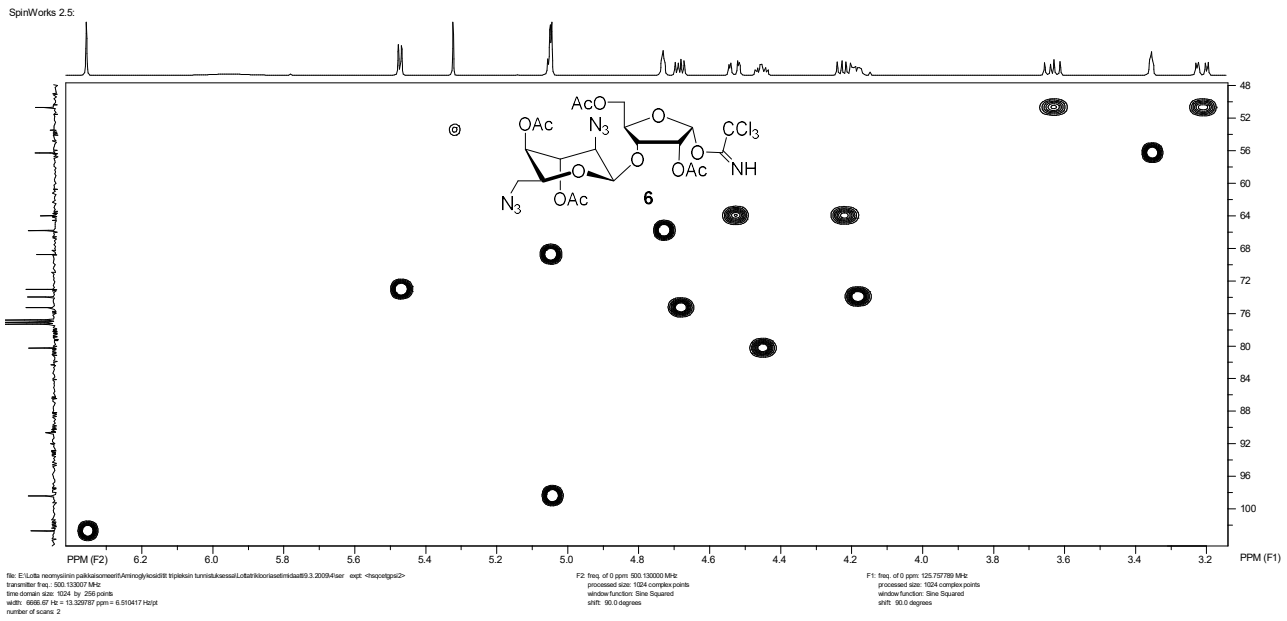


Figure S12. HSQC spectrum of **6**.

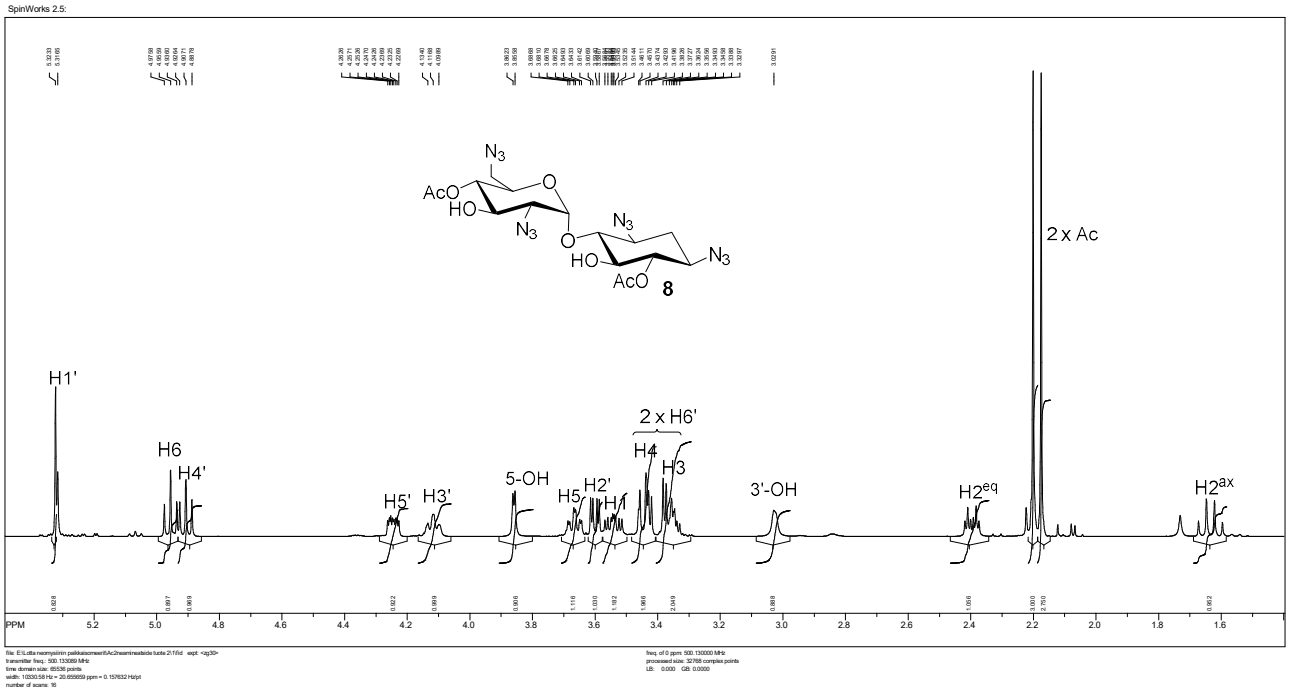


Figure S13. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **8**.

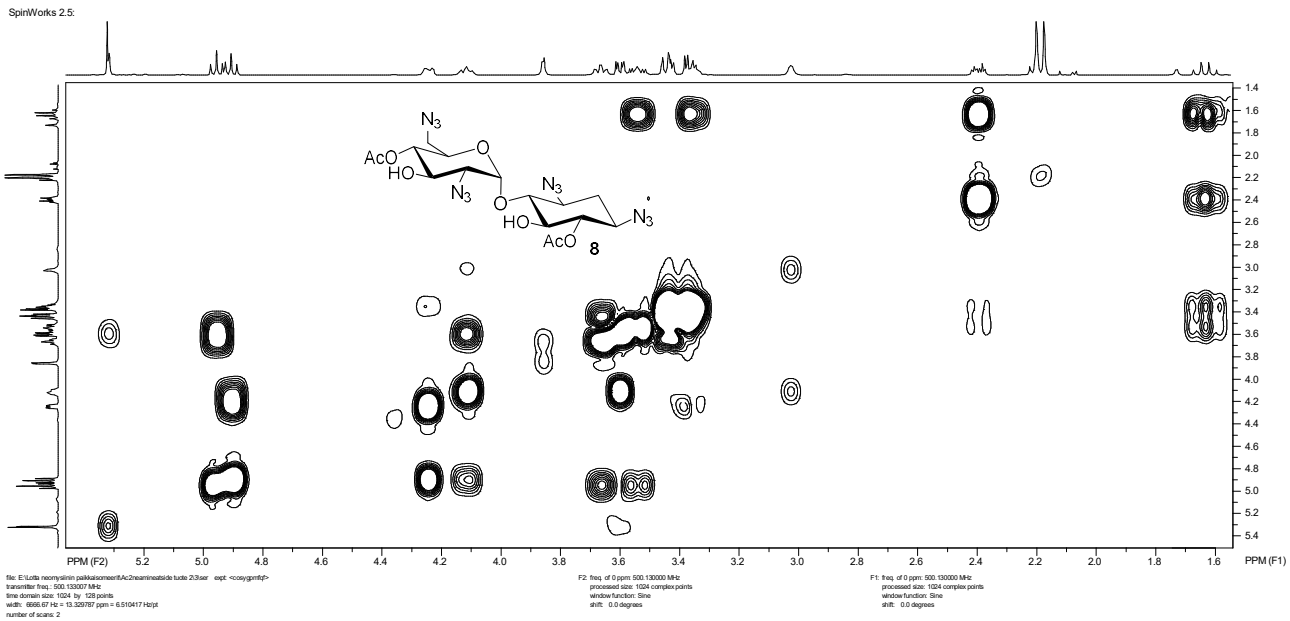


Figure S14. COSY spectrum of **8**.

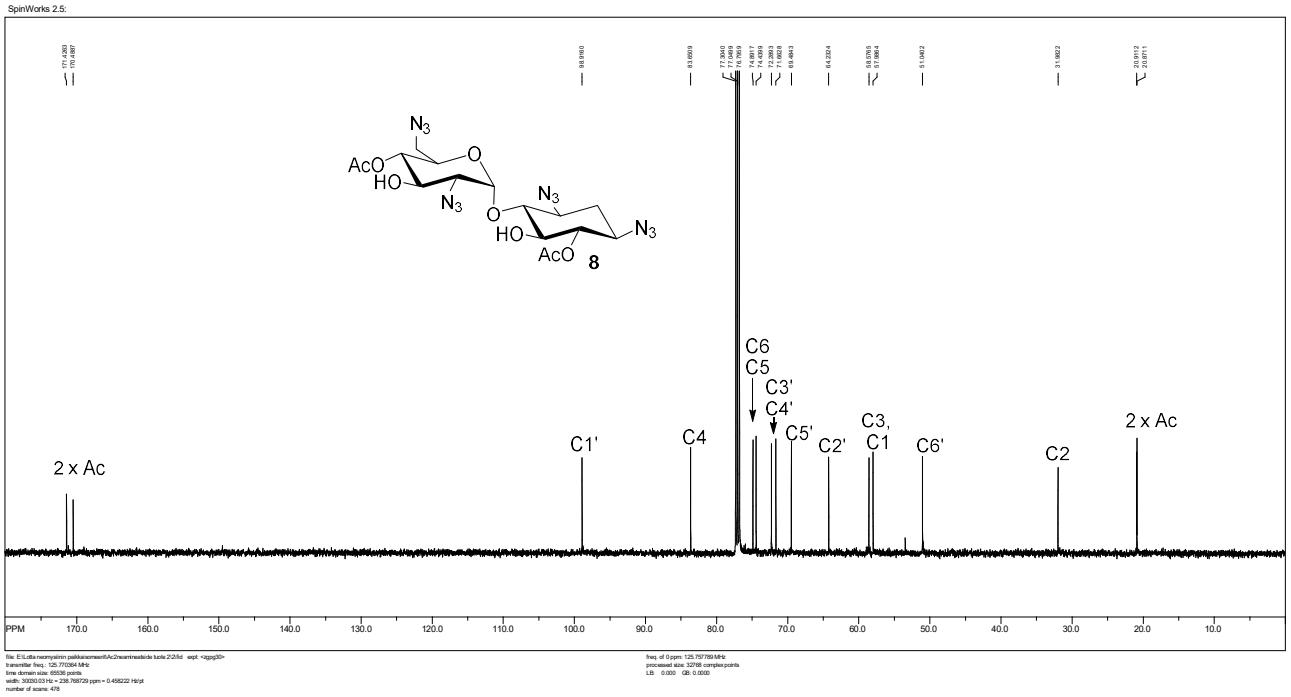


Figure S15. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **8**.

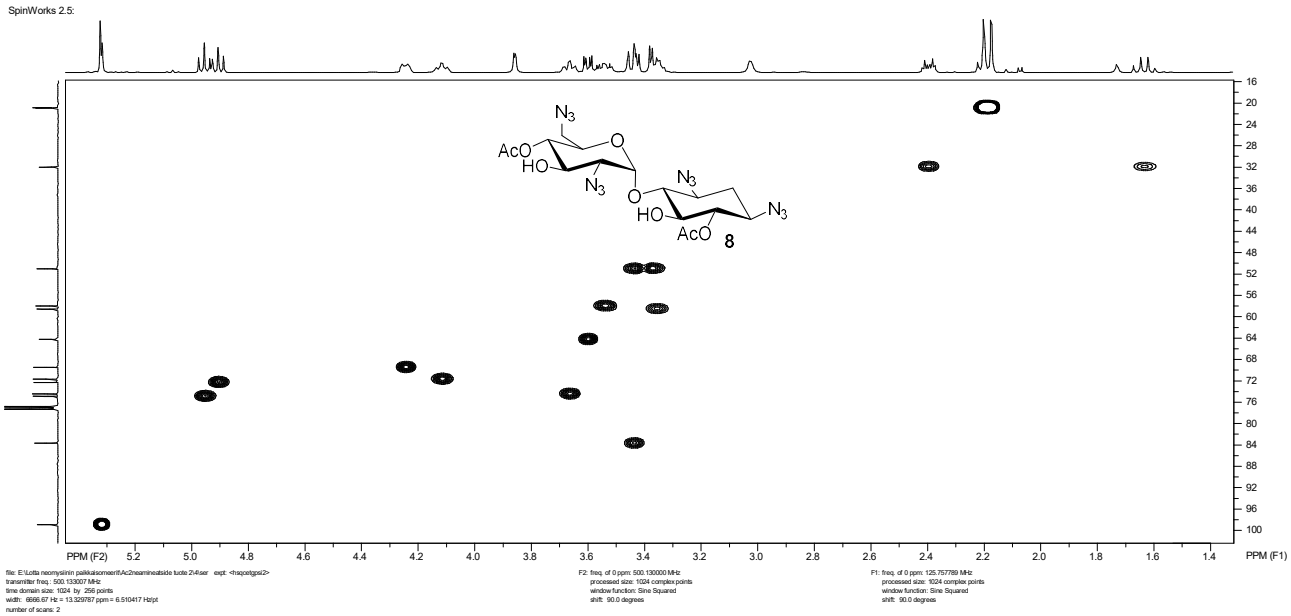


Figure S16. HSQC spectrum of **8**.

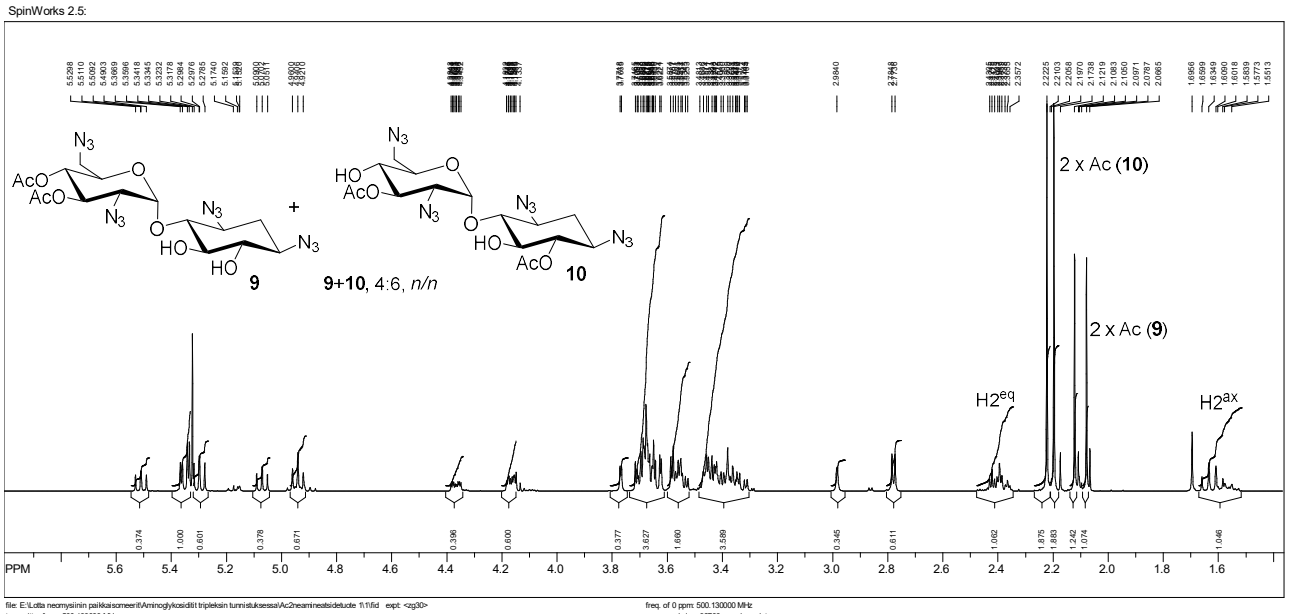
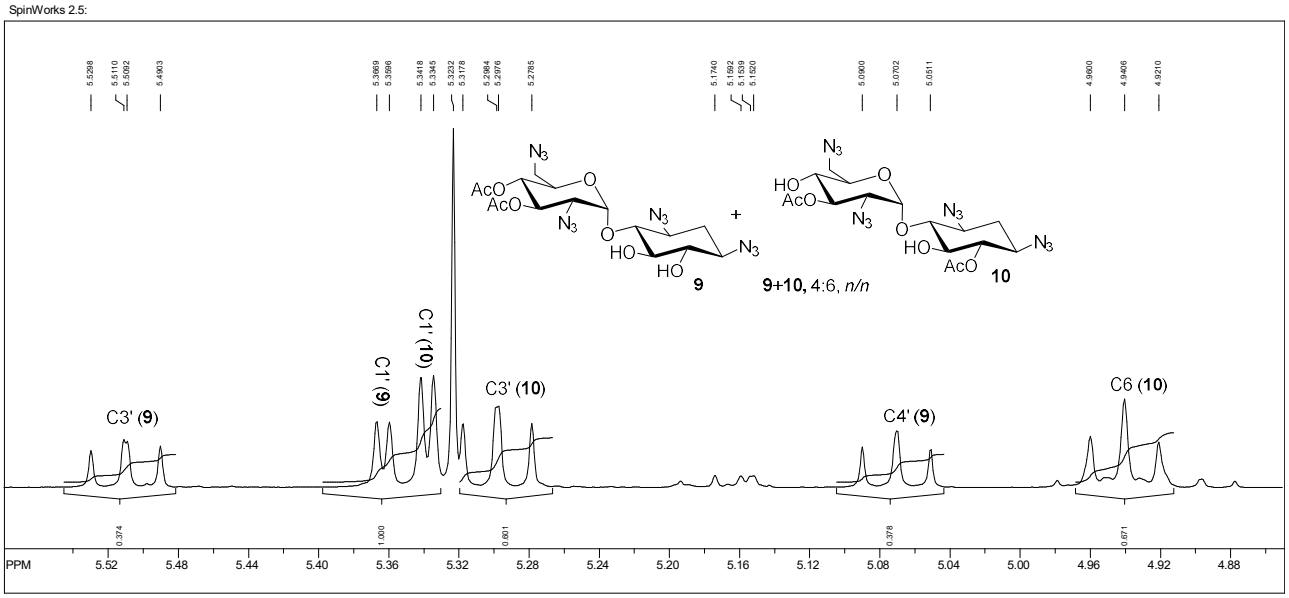


Figure S17. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **9** + **10**.



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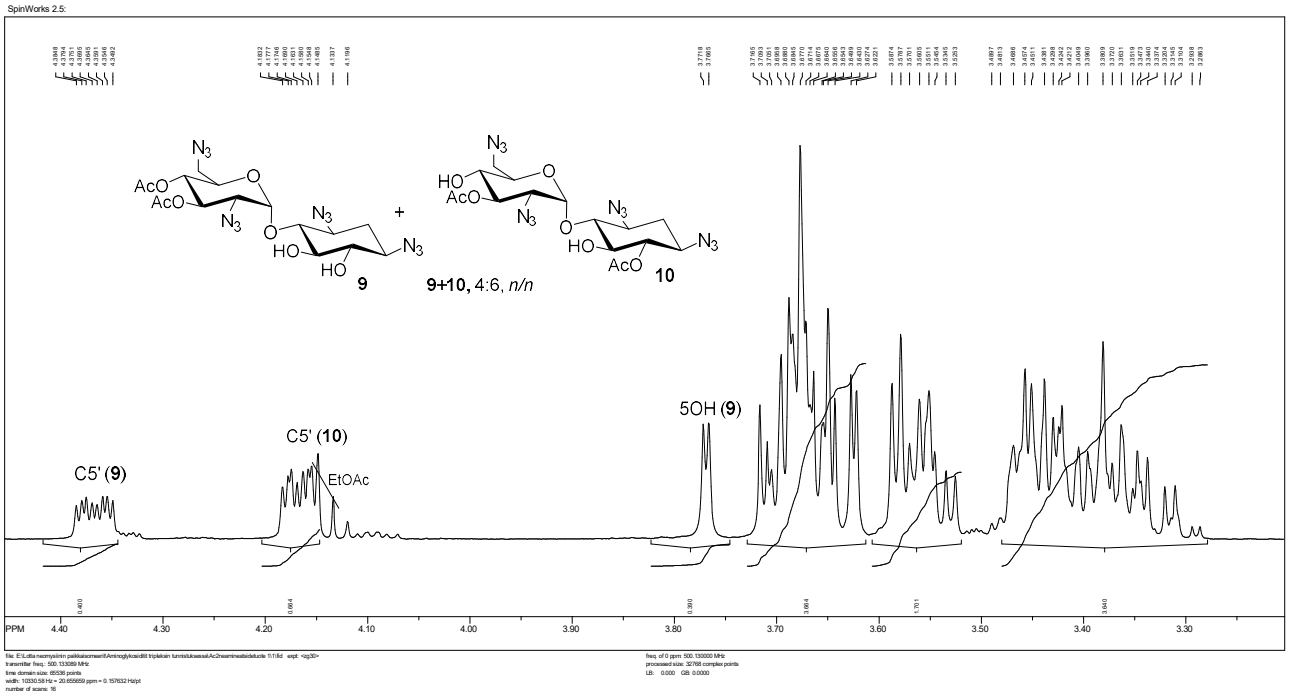

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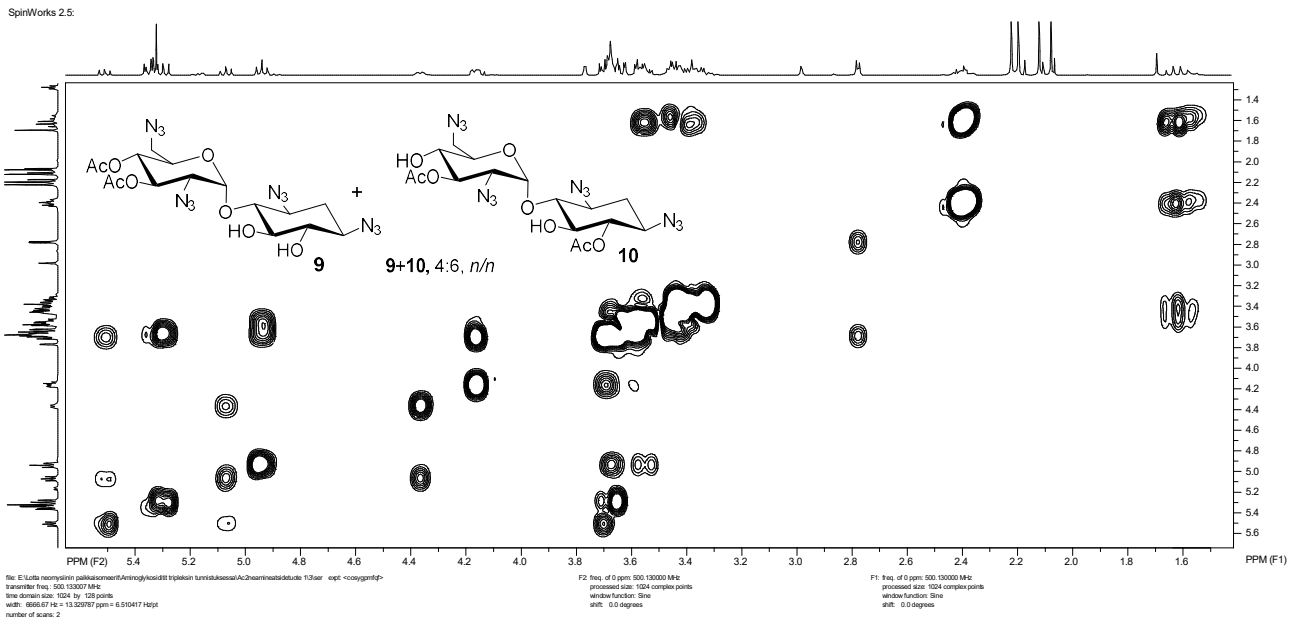

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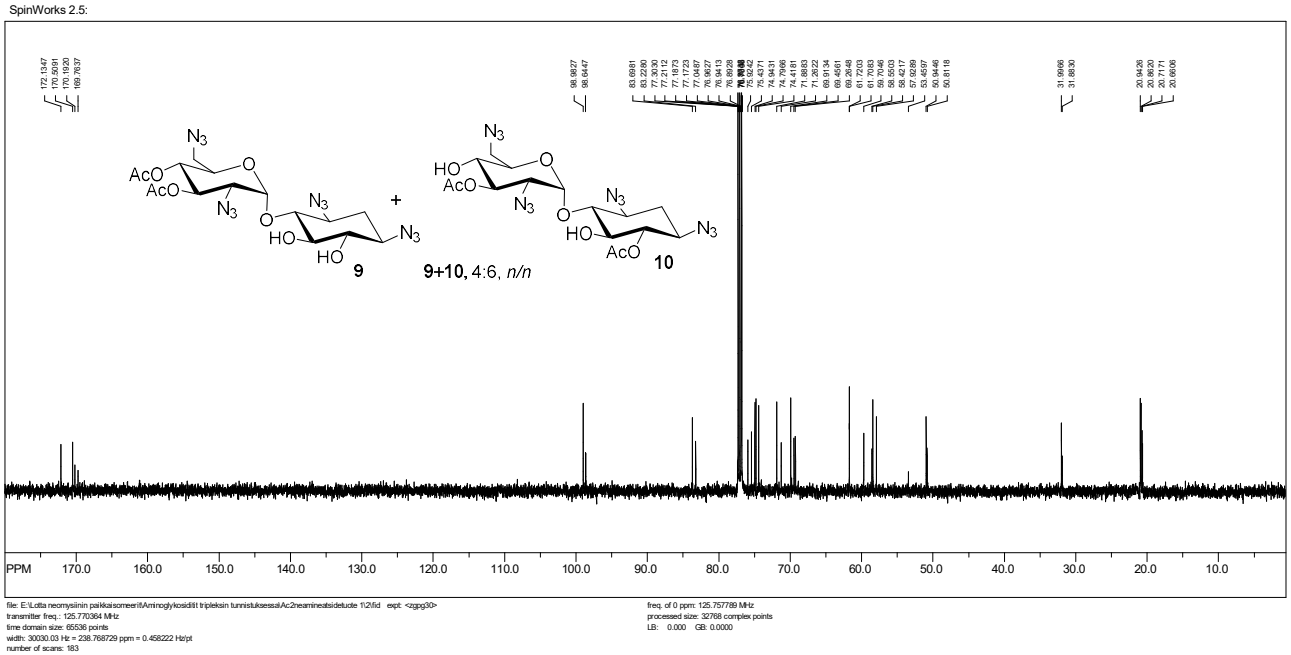


Figure S21. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **9** + **10**.

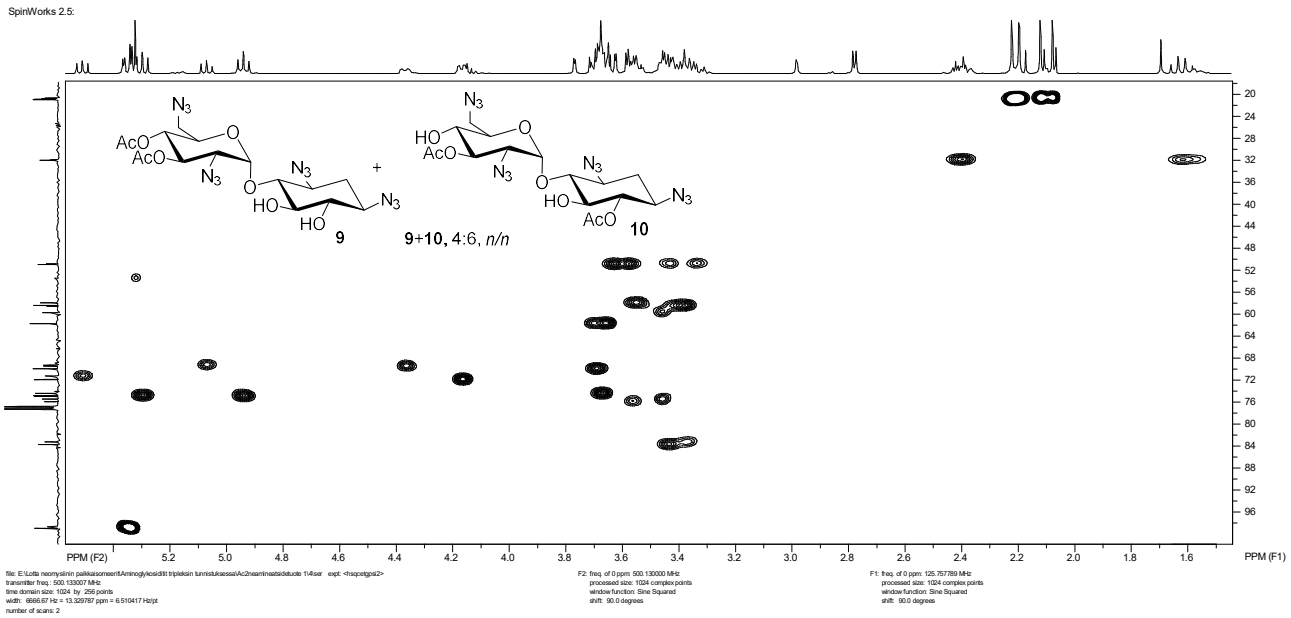


Figure S22. HSQC spectrum of **9** + **10**.

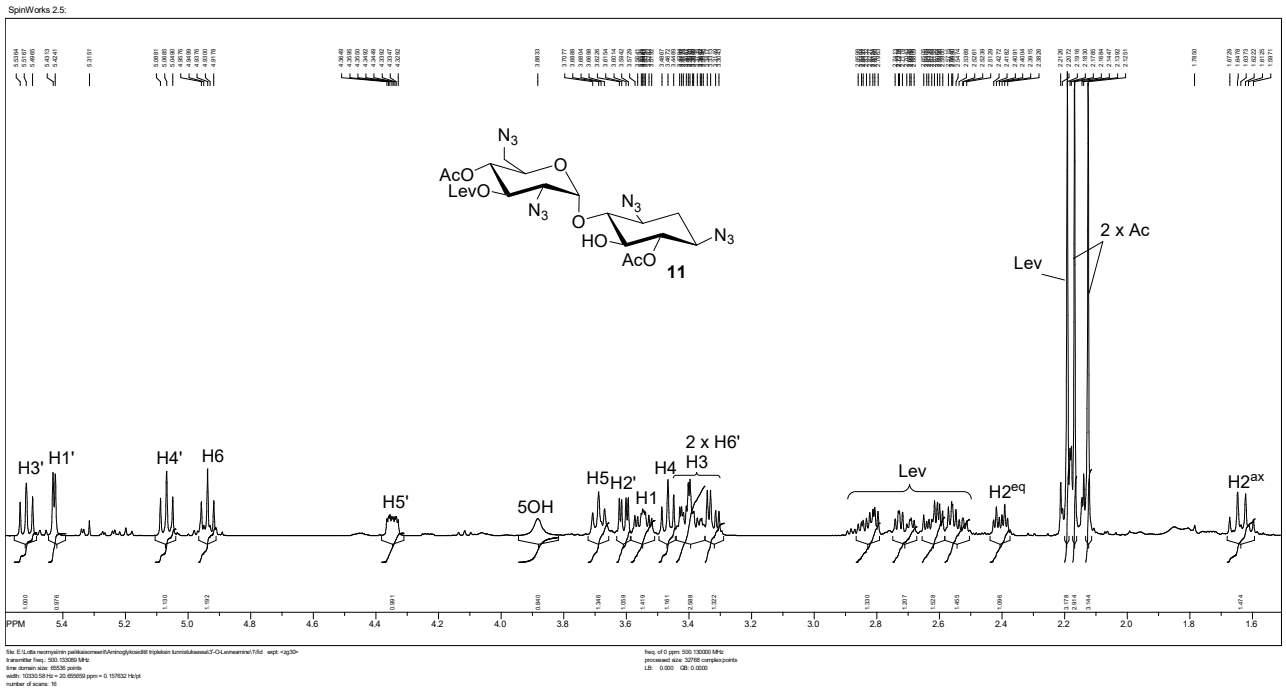
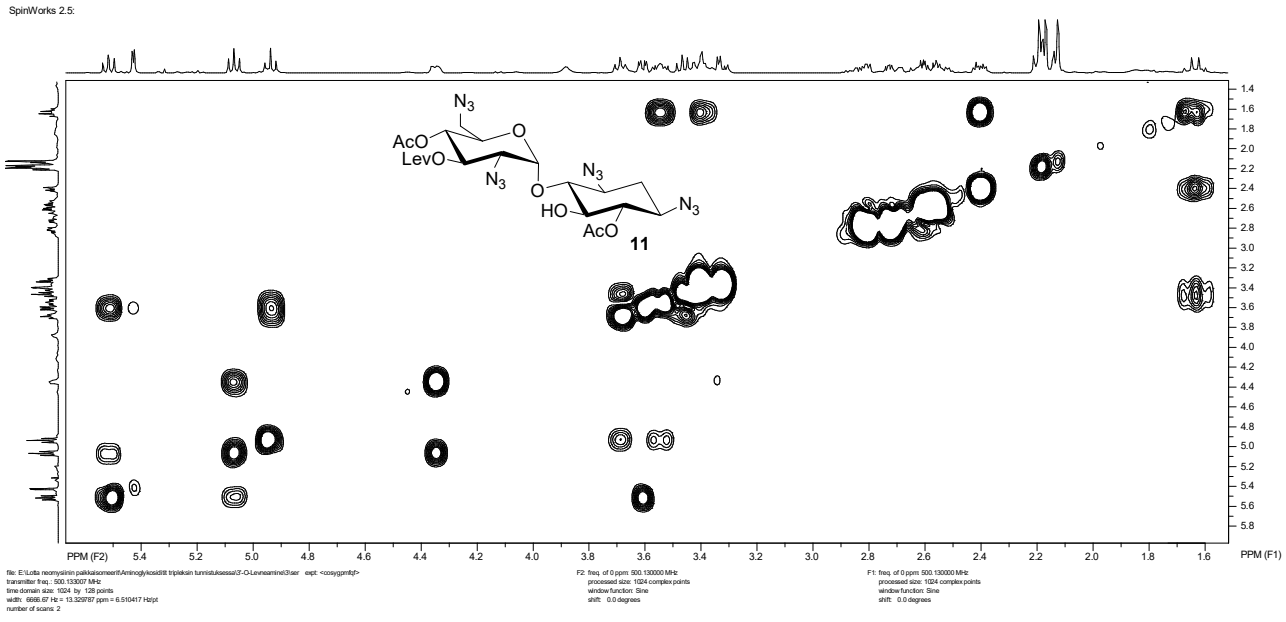


Figure S23. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **11**.



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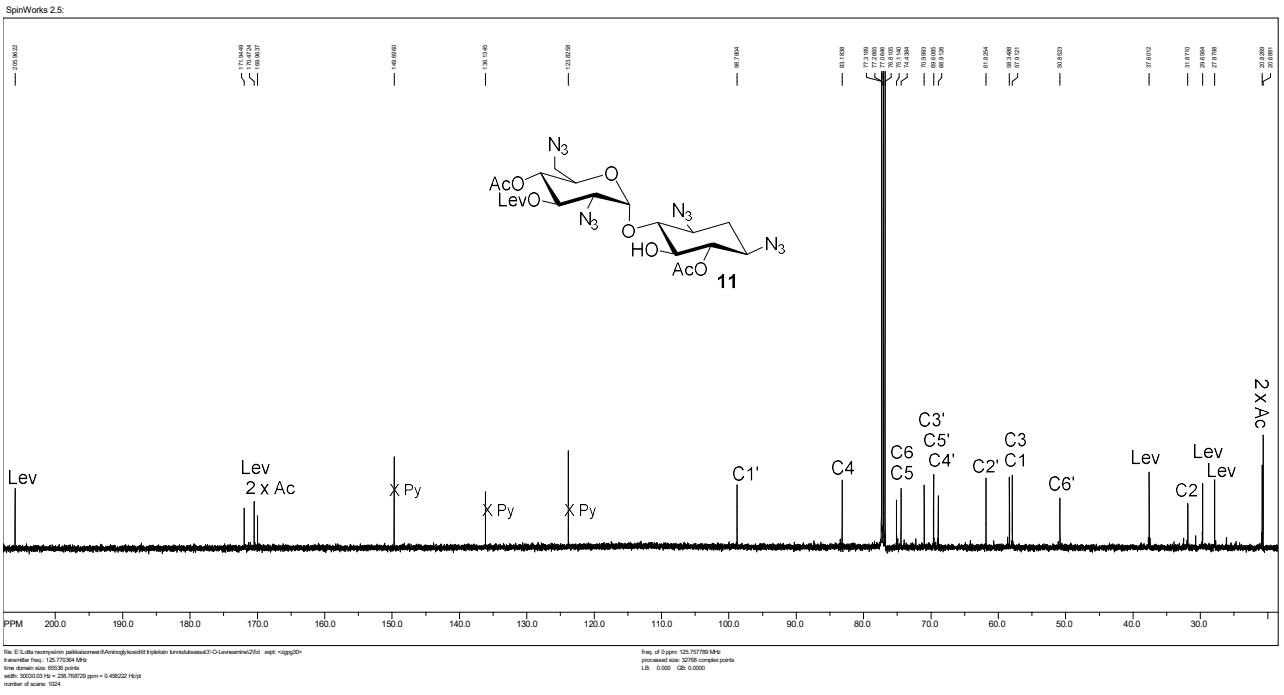

Figure S25. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **11**.

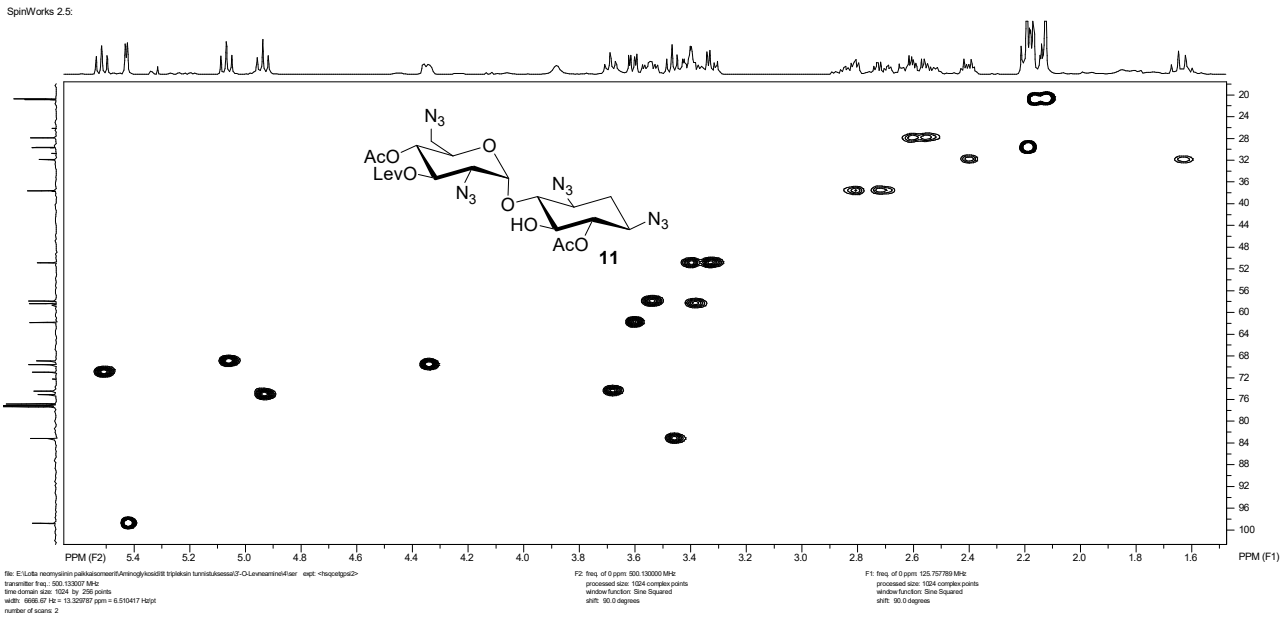

Figure S26. HSQC spectrum of **11**.

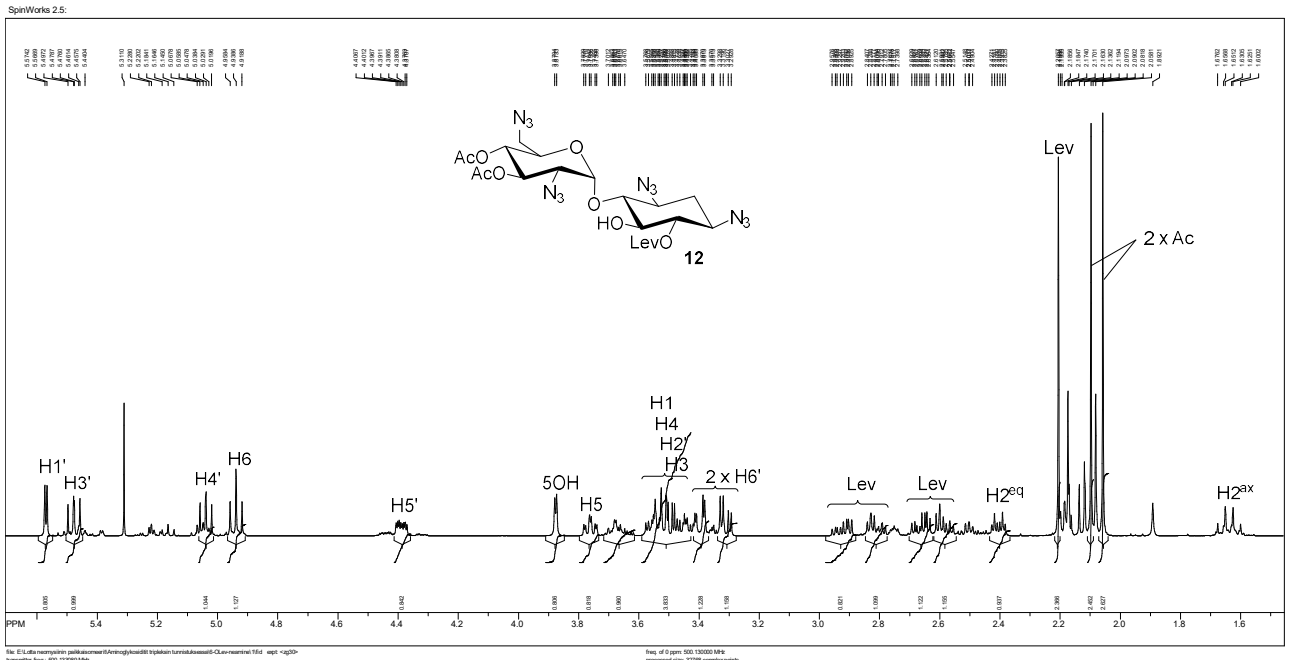

Figure S27. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **12**.

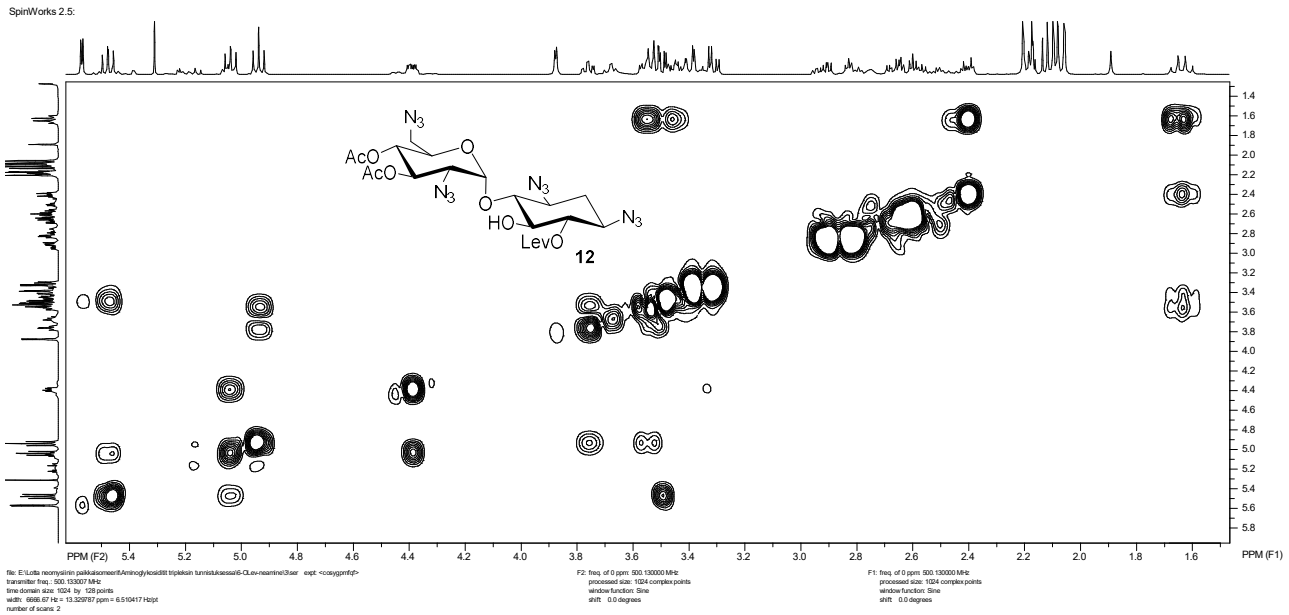

Figure S28. COSY spectrum of **12**.

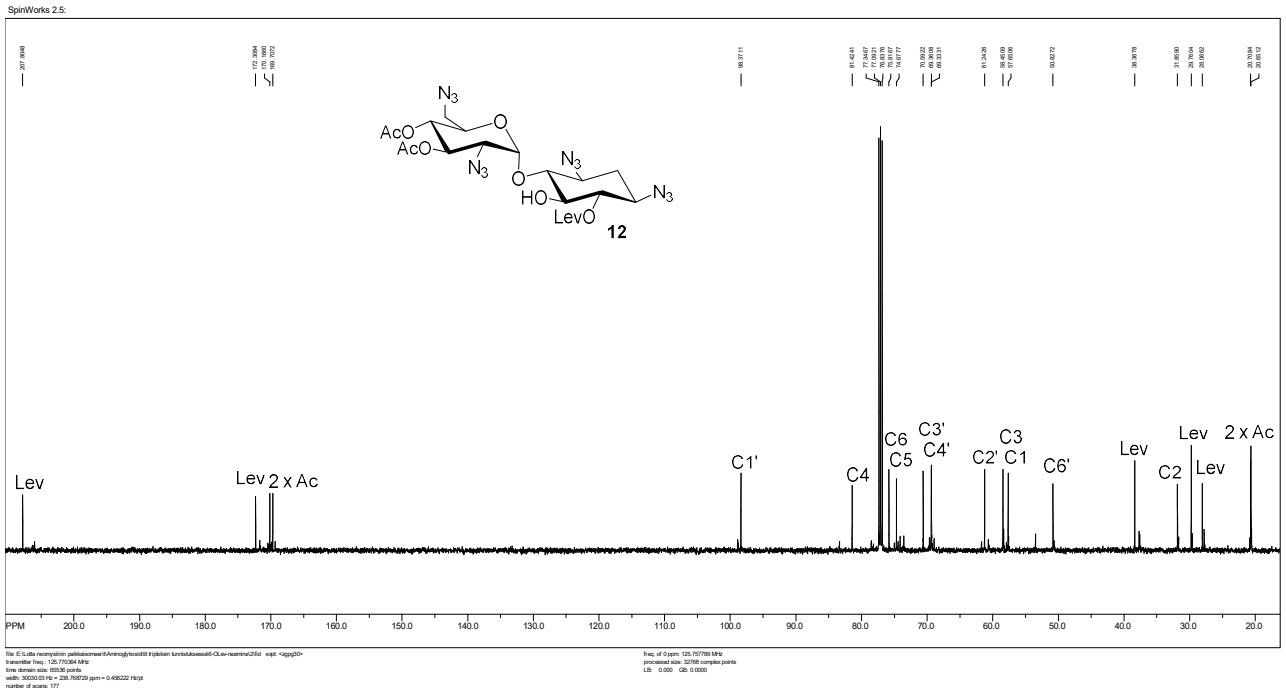

Figure S29. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **12**.

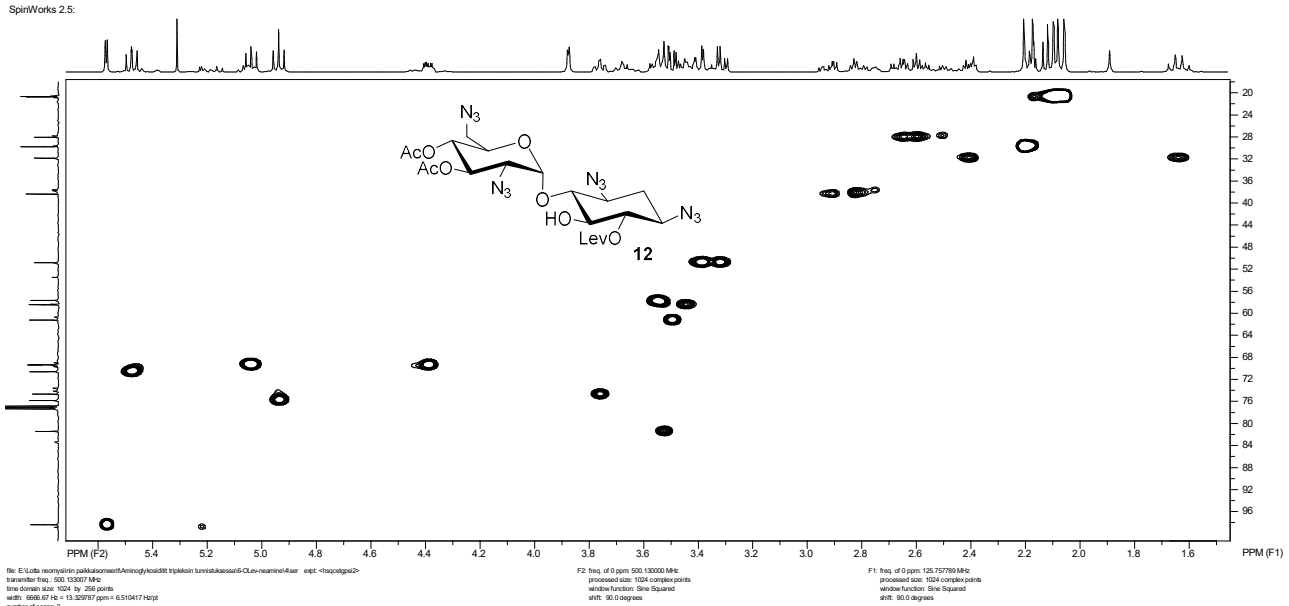

Figure S30. HSQC spectrum of **12**.

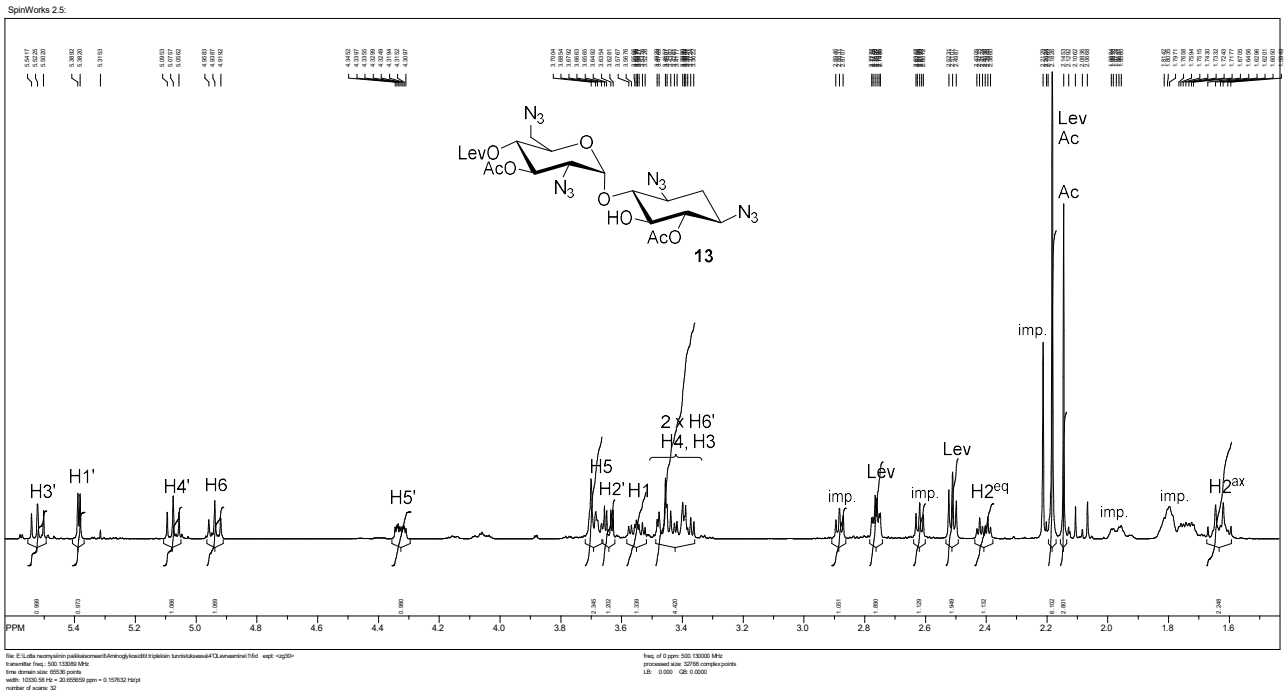

Figure S31. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **13**.

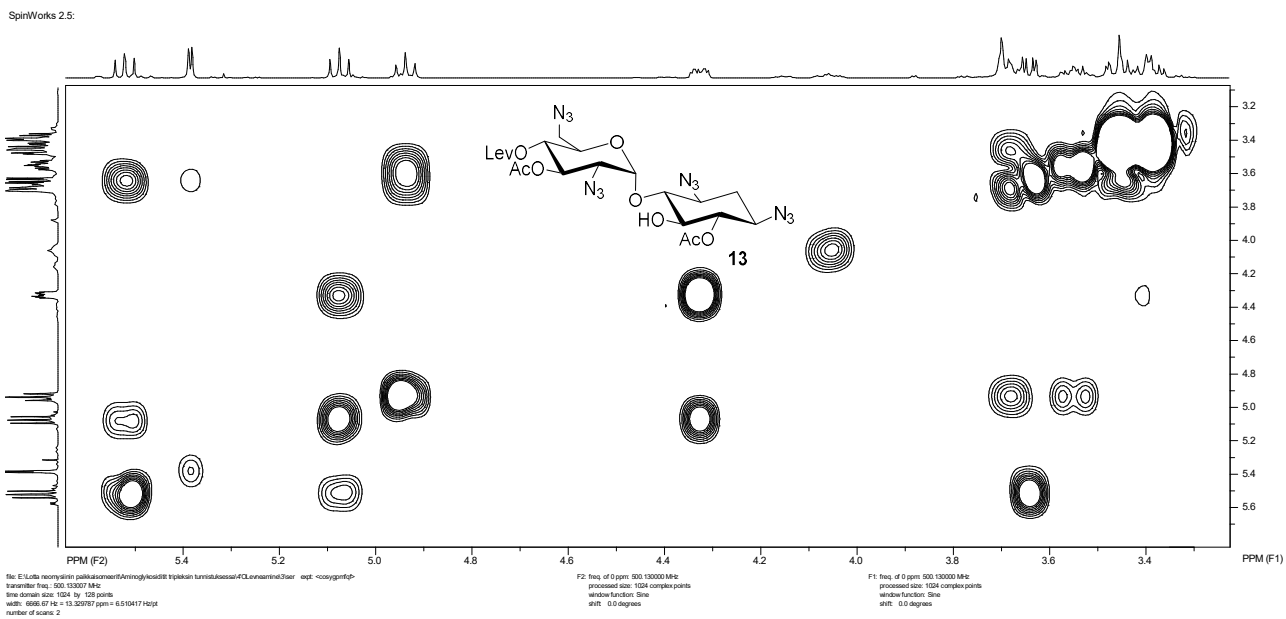

Figure S32. COSY spectrum of **13**.

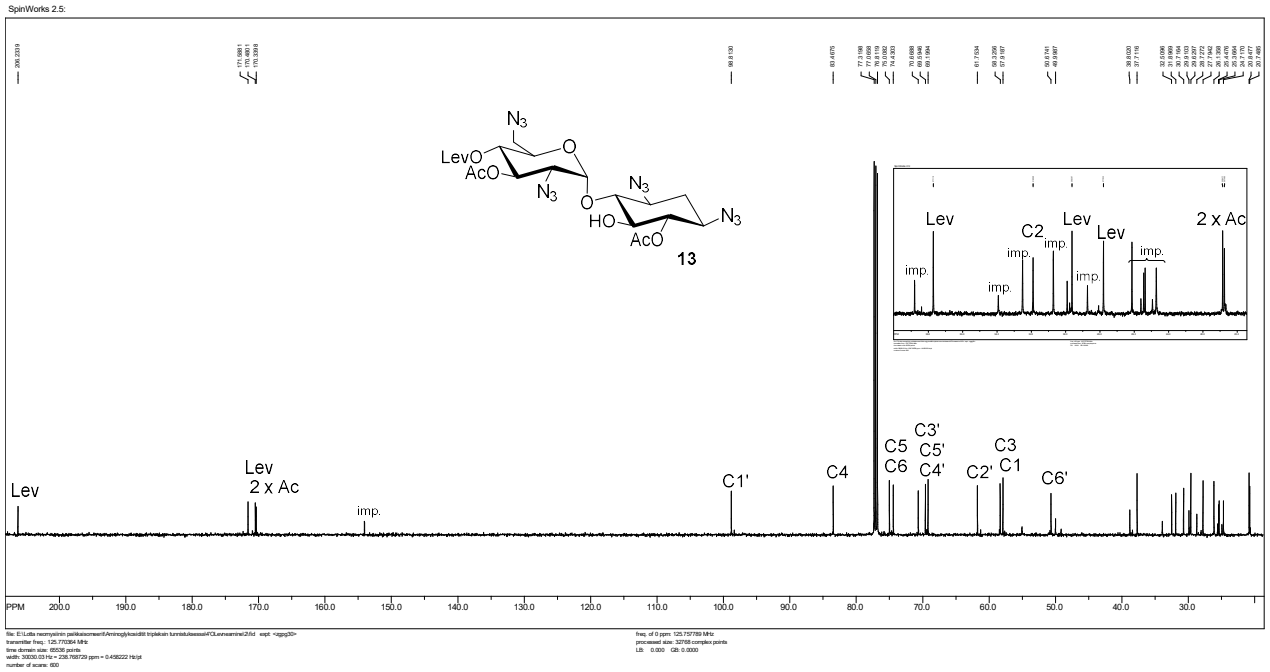

Figure S33. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **13**.

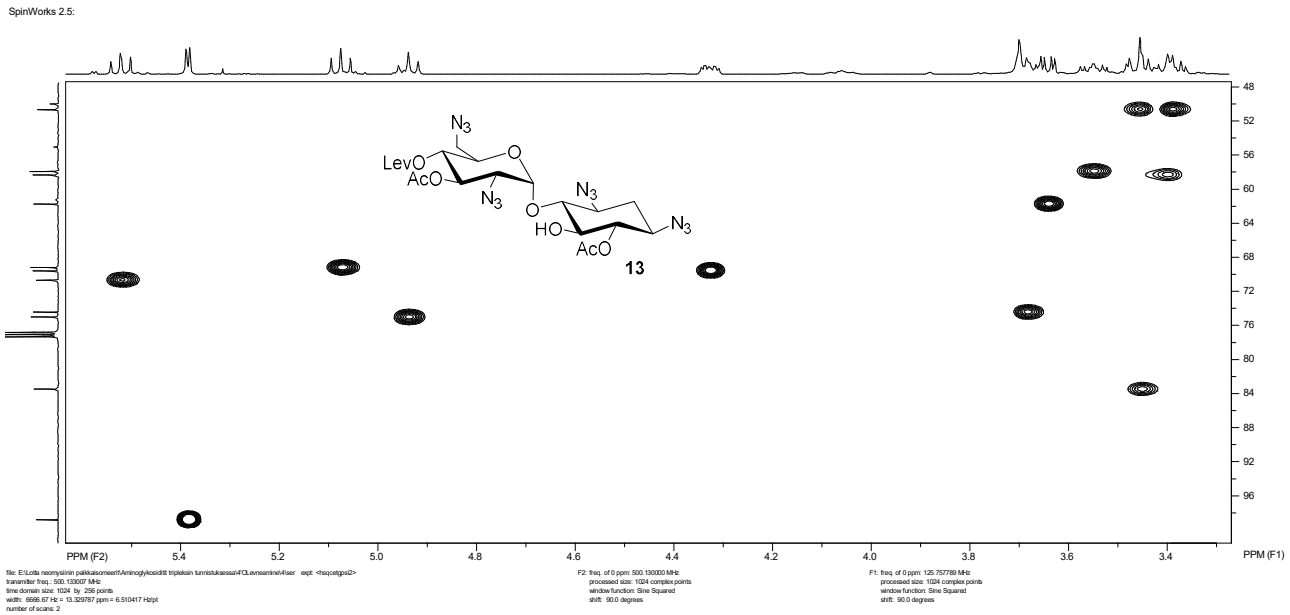

Figure S34. HSQC spectrum of **13**.

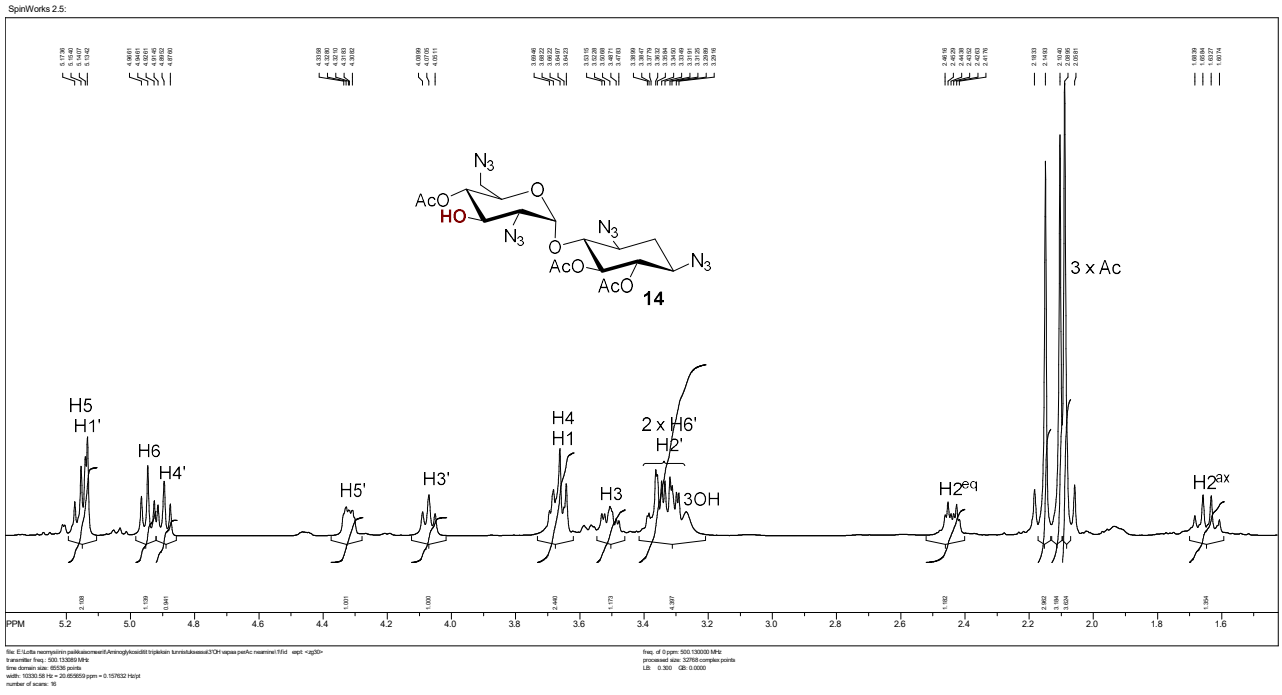

Figure S35. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **14**.

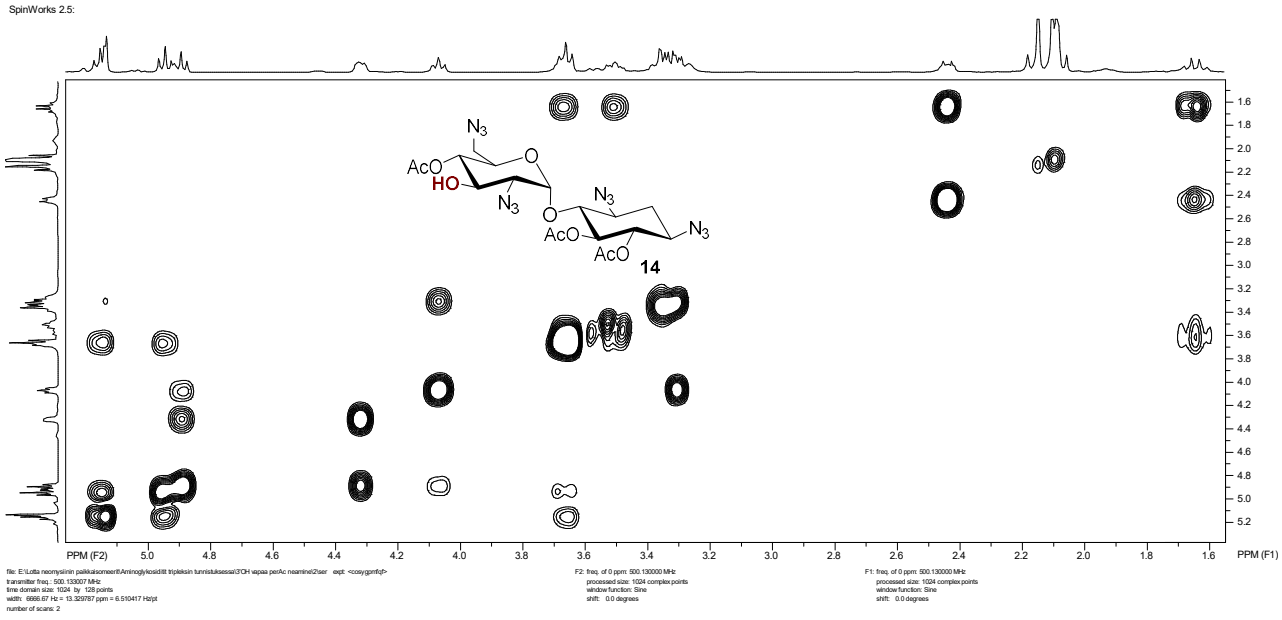

Figure S36. COSY spectrum of **14**.

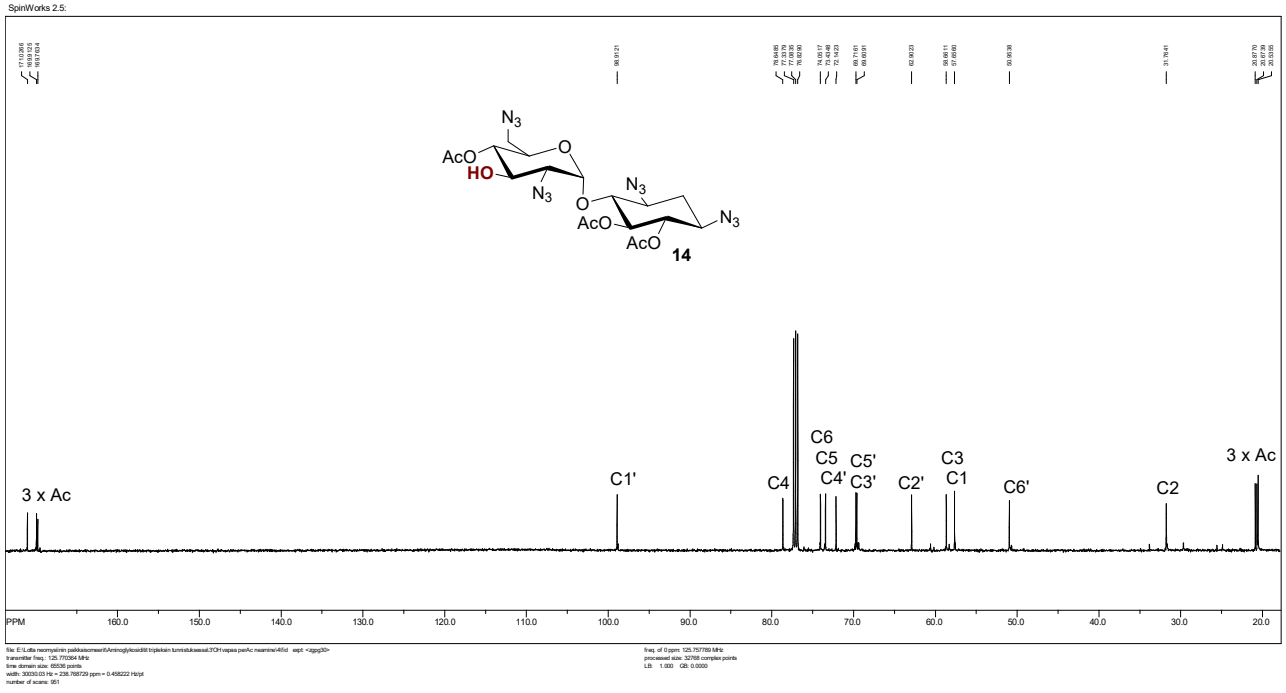

Figure S37. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **14**.

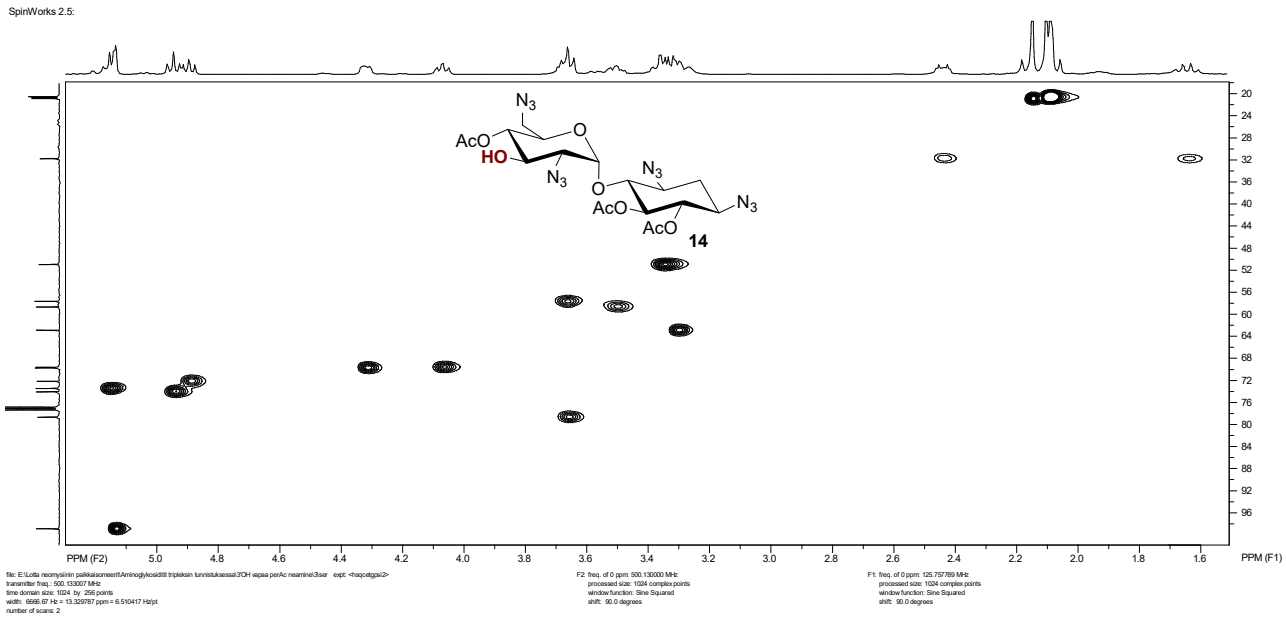

Figure S38. HSQC spectrum of **14**.

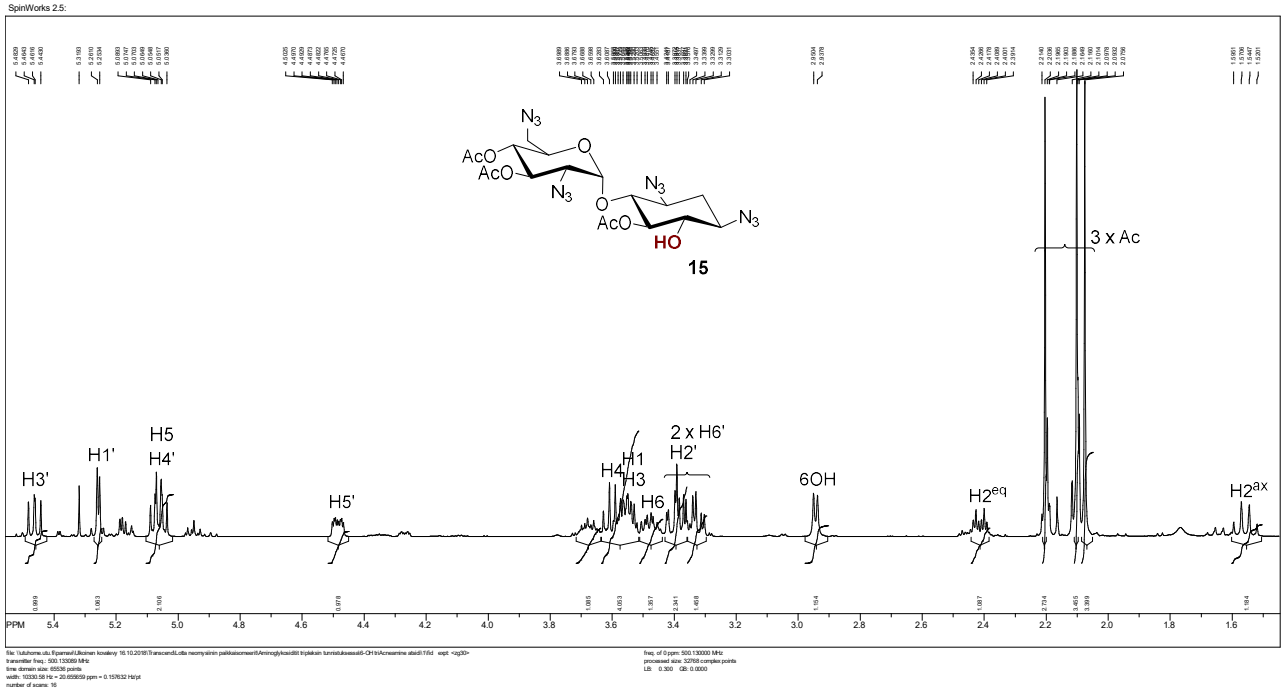

Figure S39. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **15**.

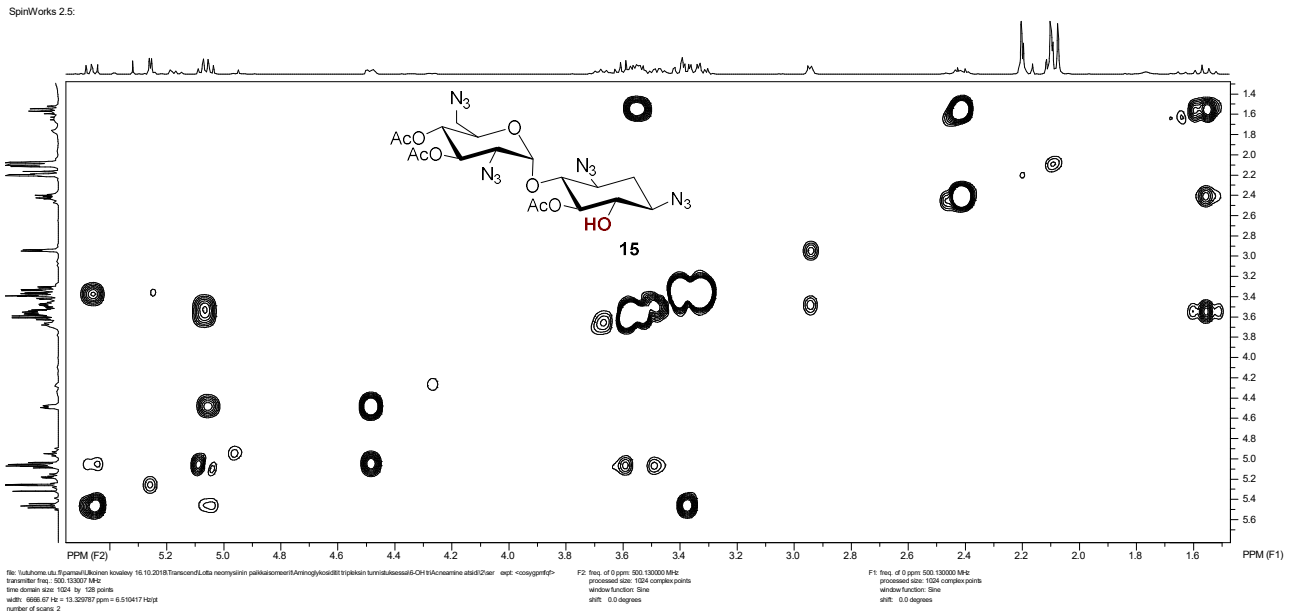

Figure S40. COSY spectrum of **15**.

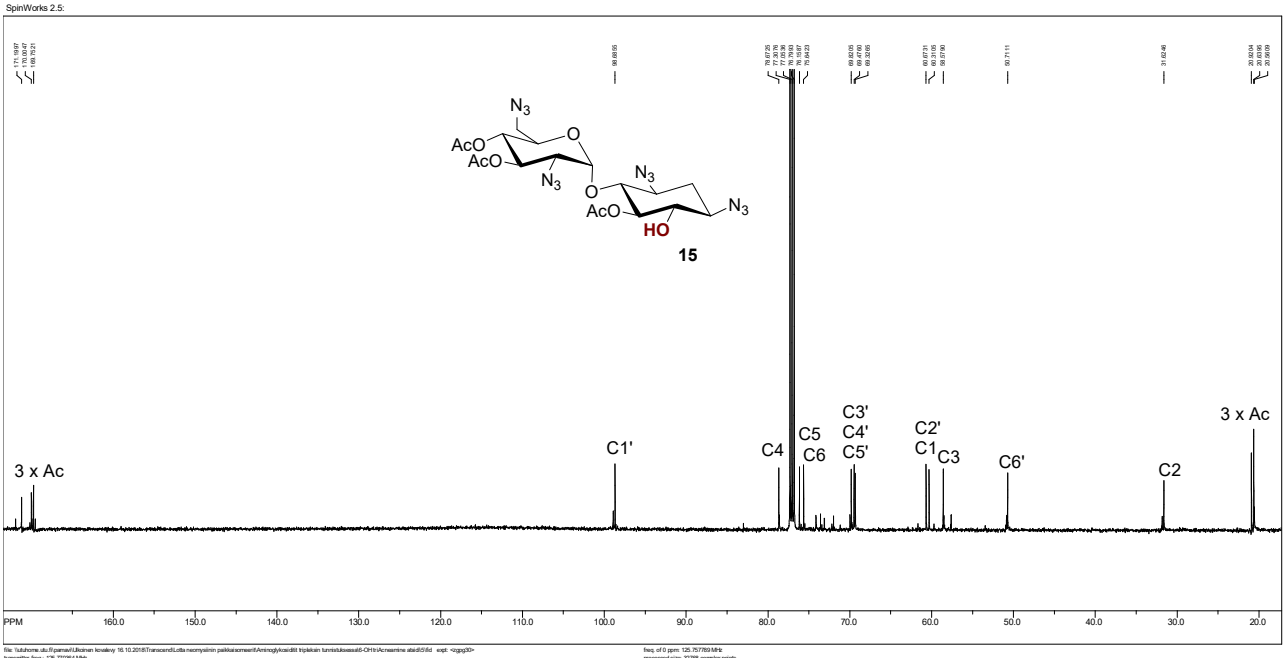

Figure S41. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **15**.

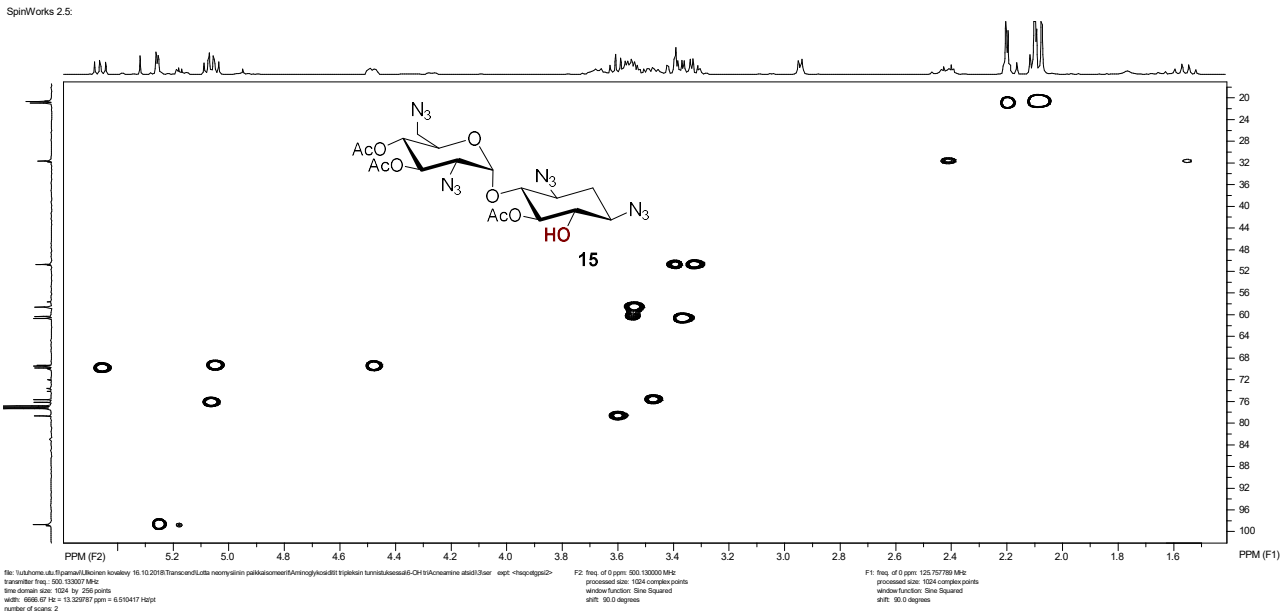

Figure S42. HSQC spectrum of **15**.

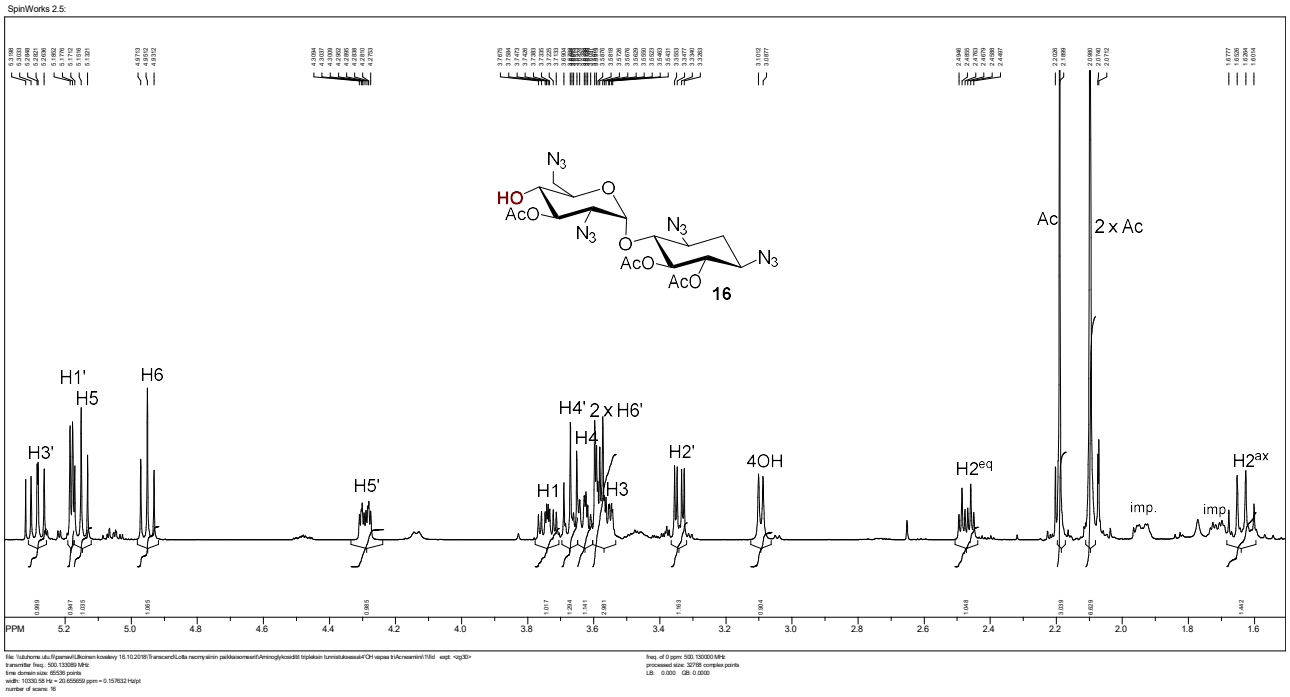

Figure S43. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **16**.

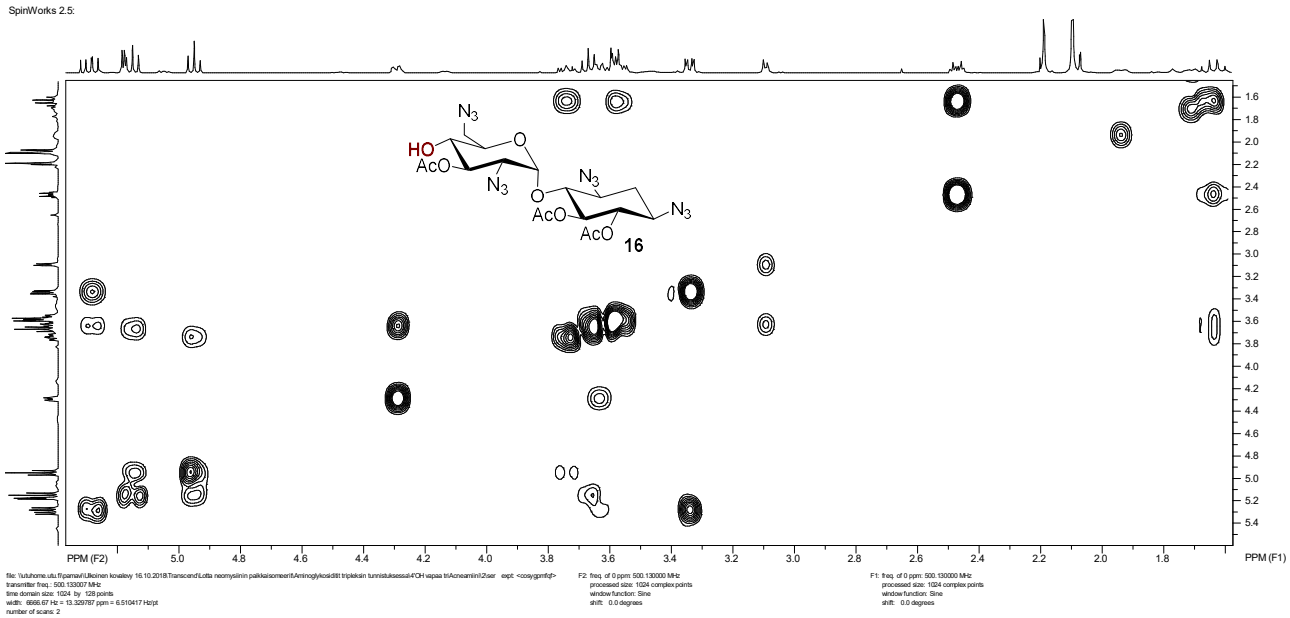

Figure S44. COSY spectrum of **16**.

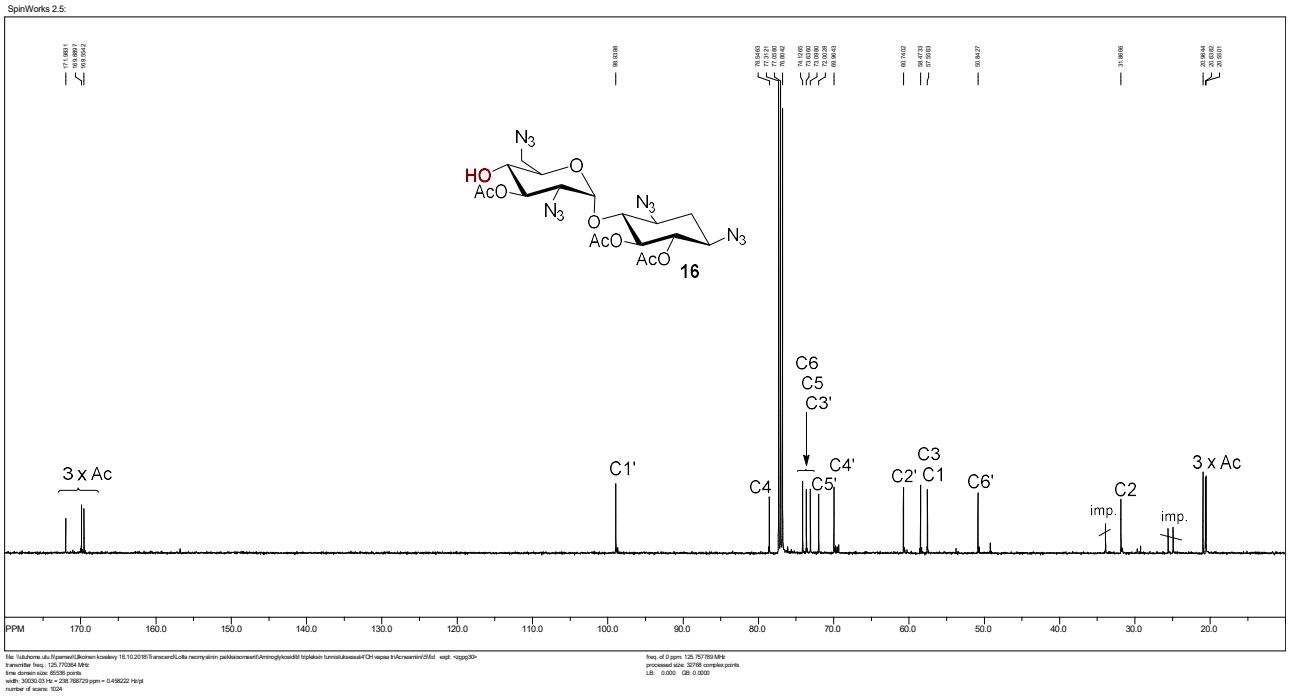

Figure S45. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **16**.

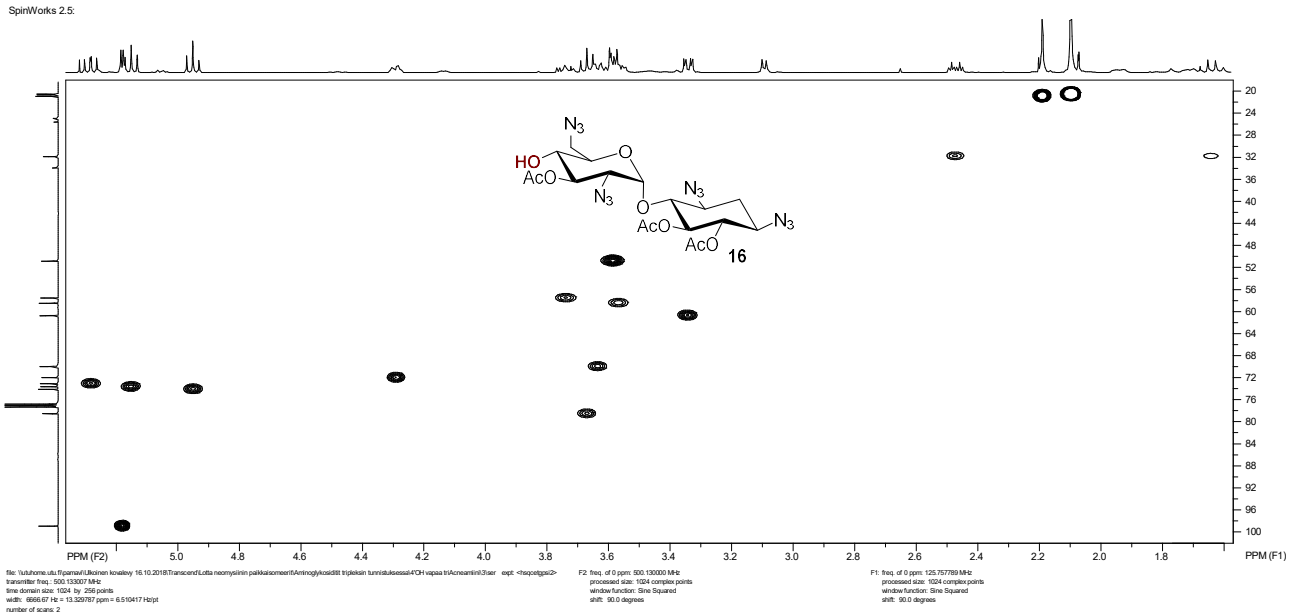

Figure S46. HSQC spectrum of **16**.

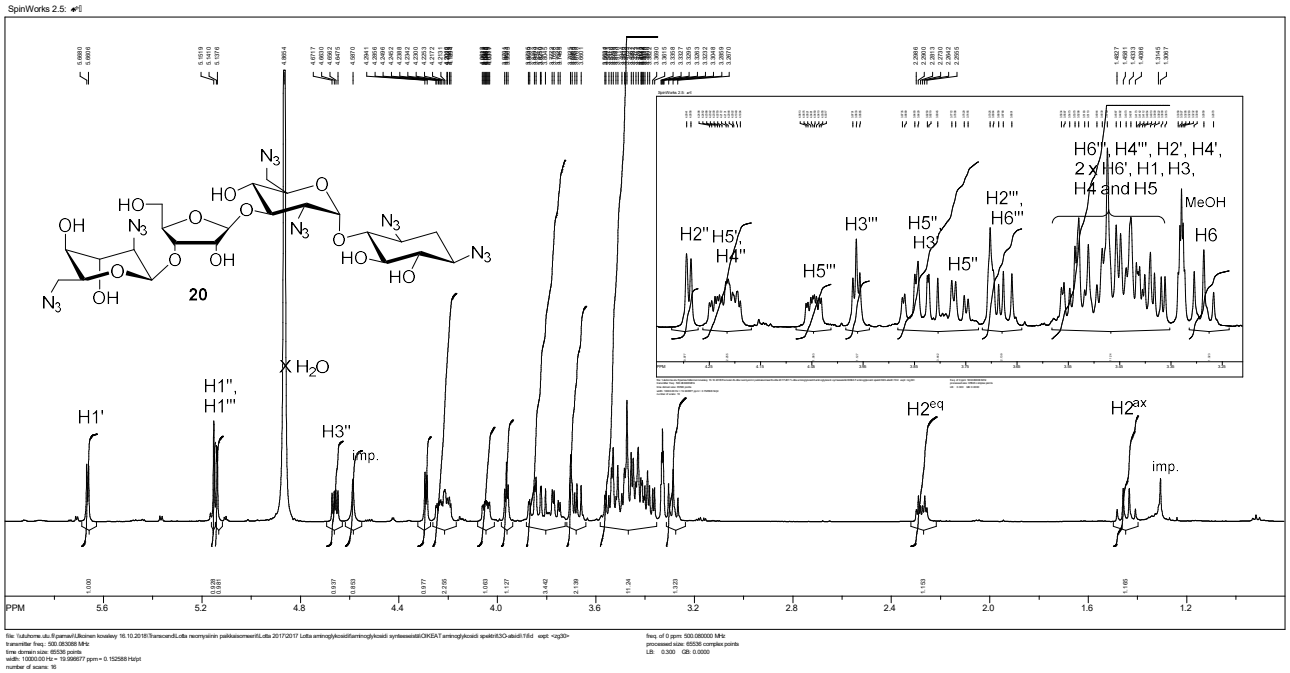

Figure S47. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **20**.

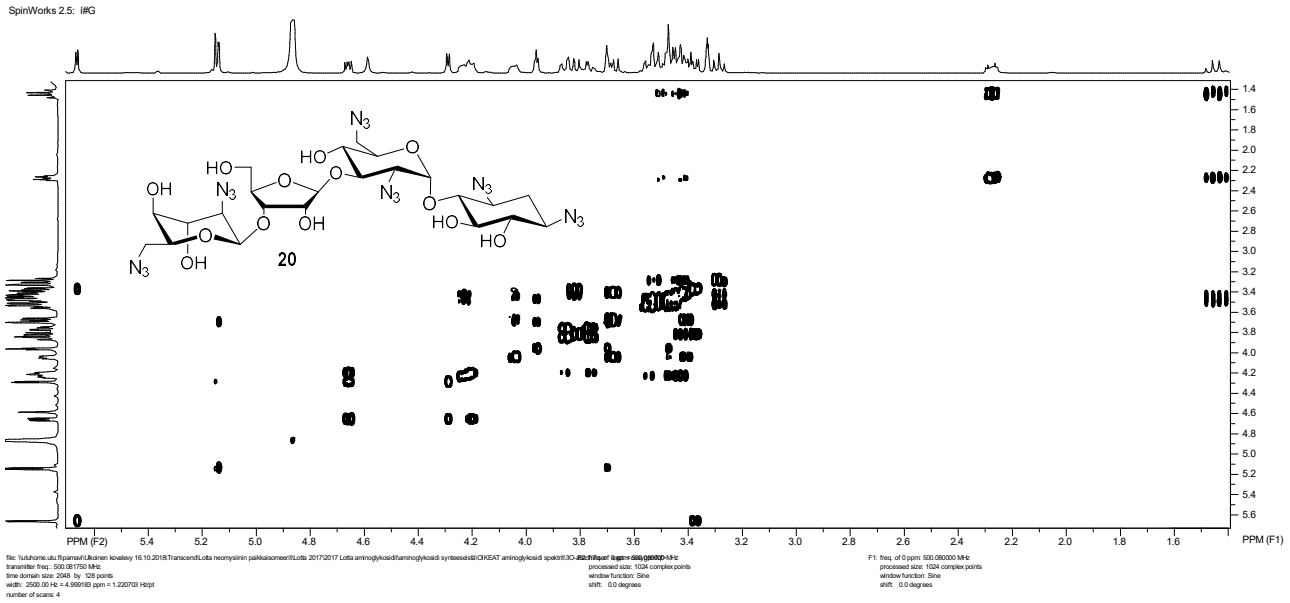

Figure S48. COSY spectrum of **20**.

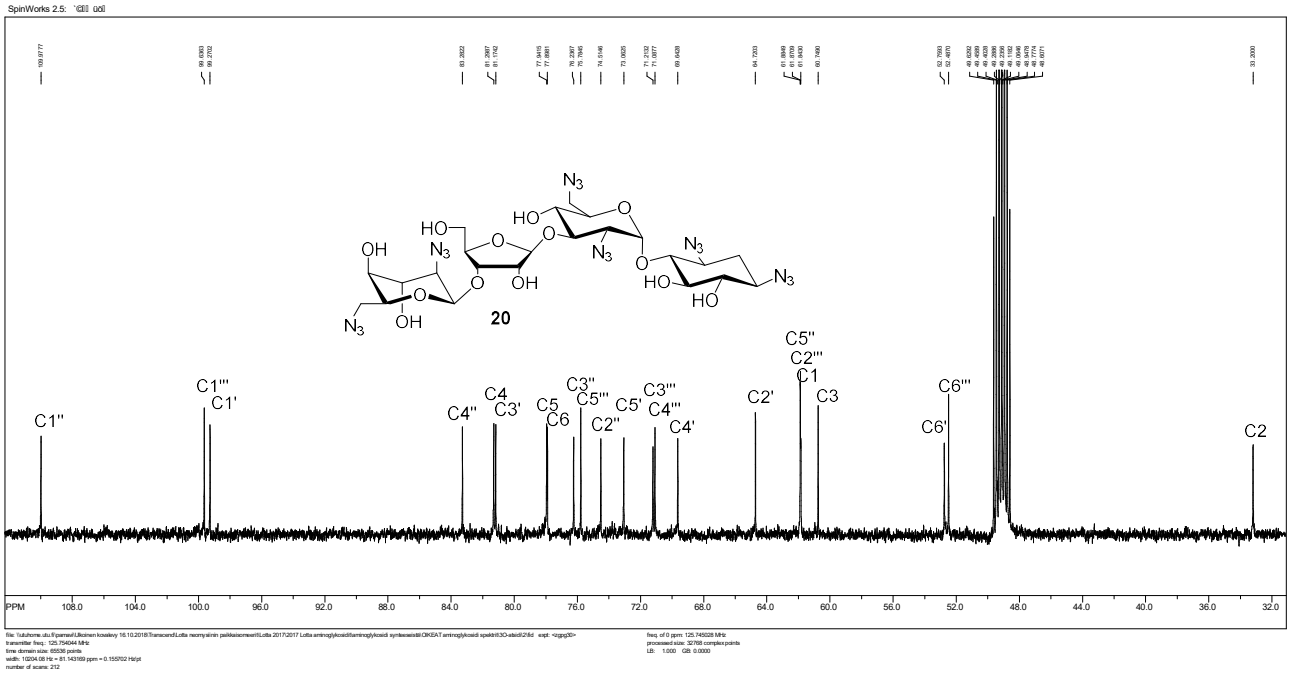

Figure S49. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **20**.

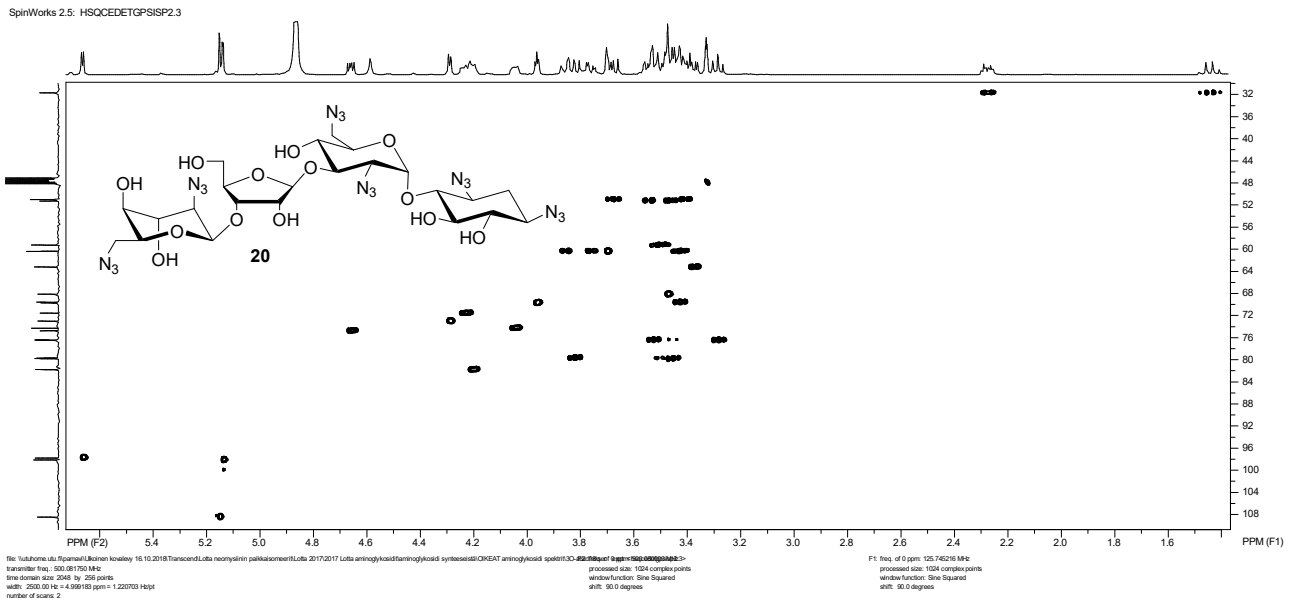

Figure S50. HSQC spectrum of **20**.

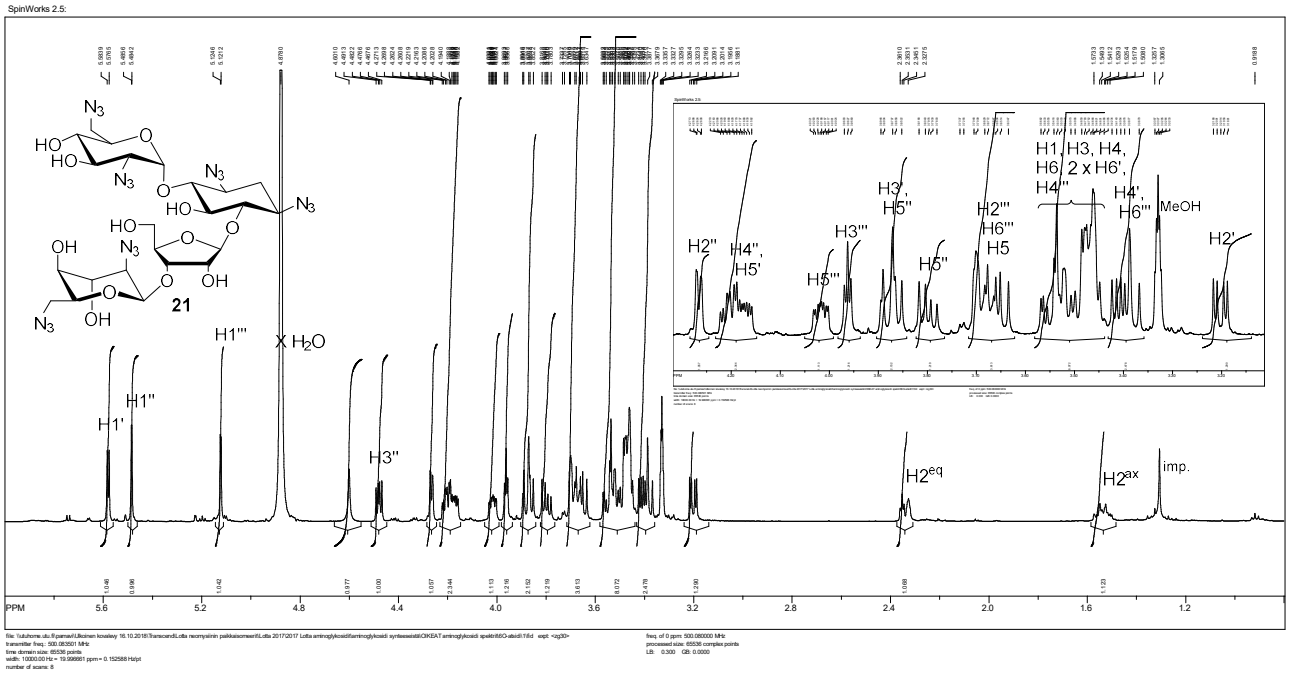

Figure S51. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **21**.

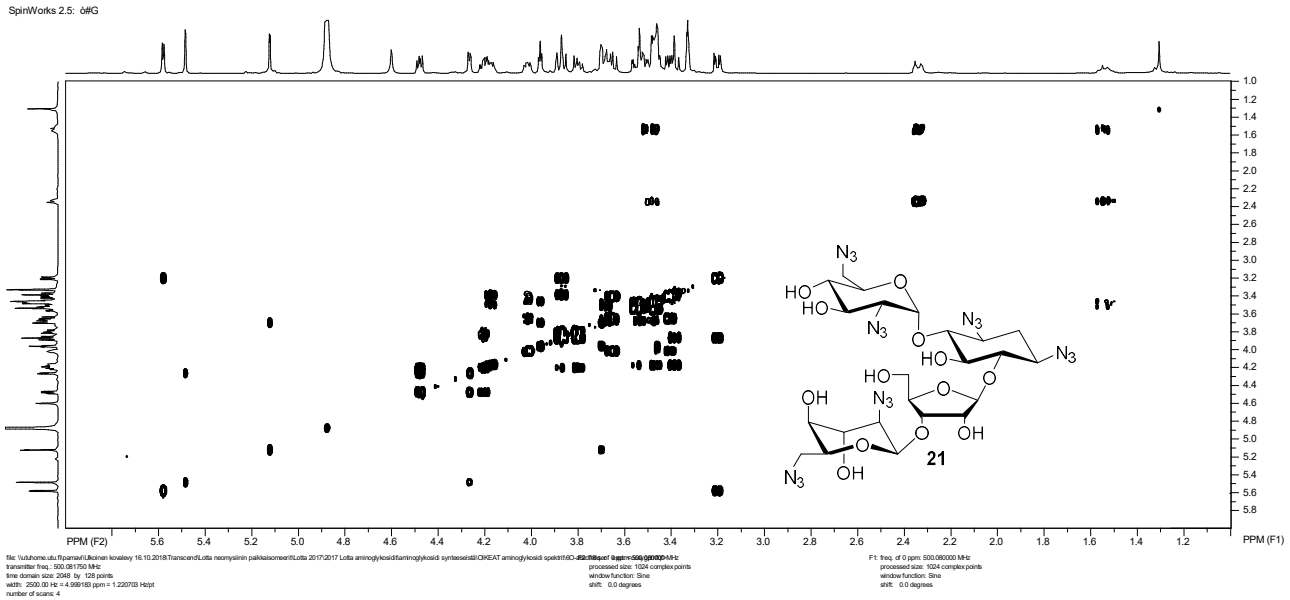

Figure S52. COSY spectrum of **21**.

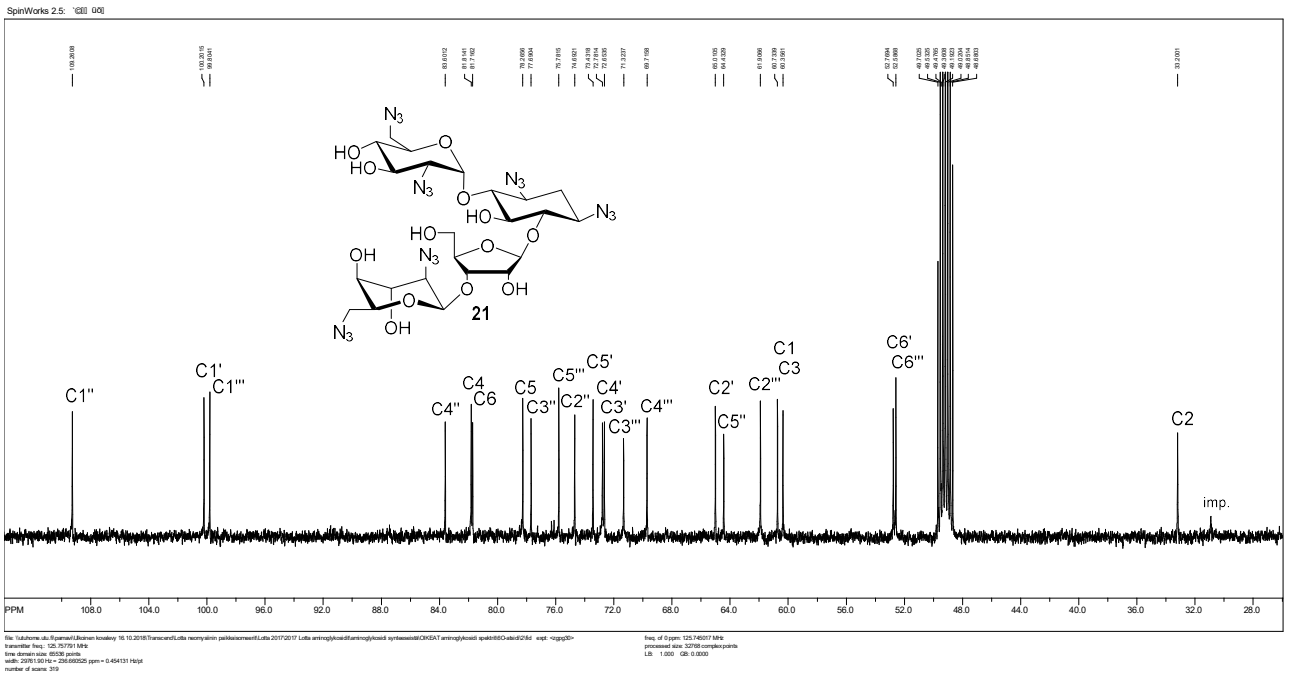

Figure S53. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **21**.

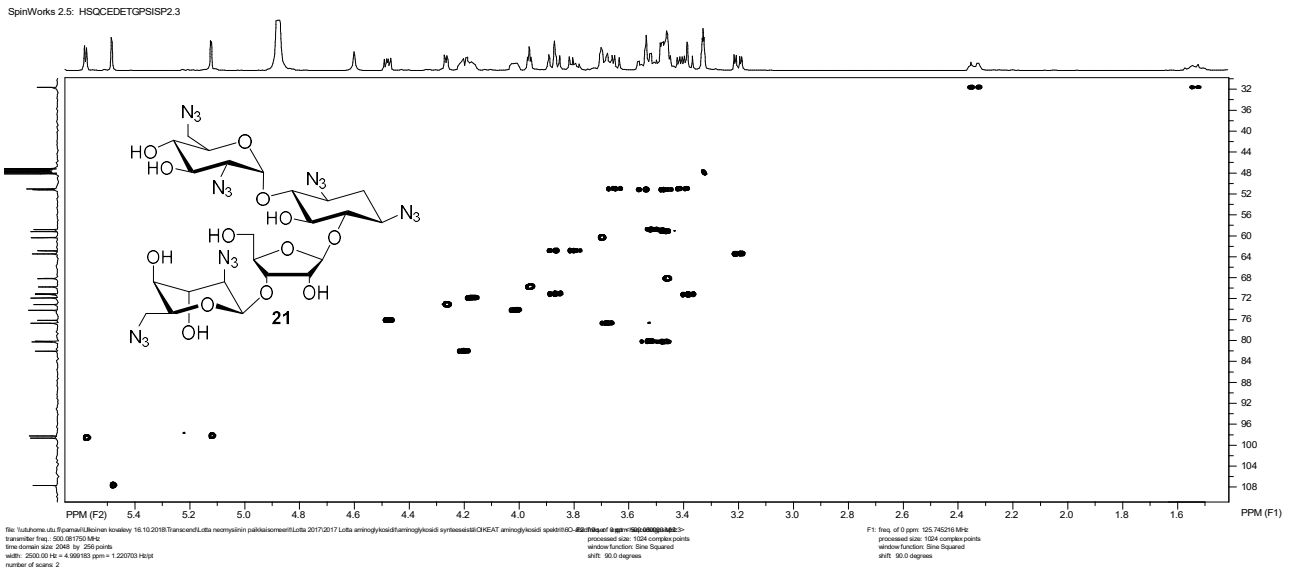

Figure S54. HSQC spectrum of **21**.

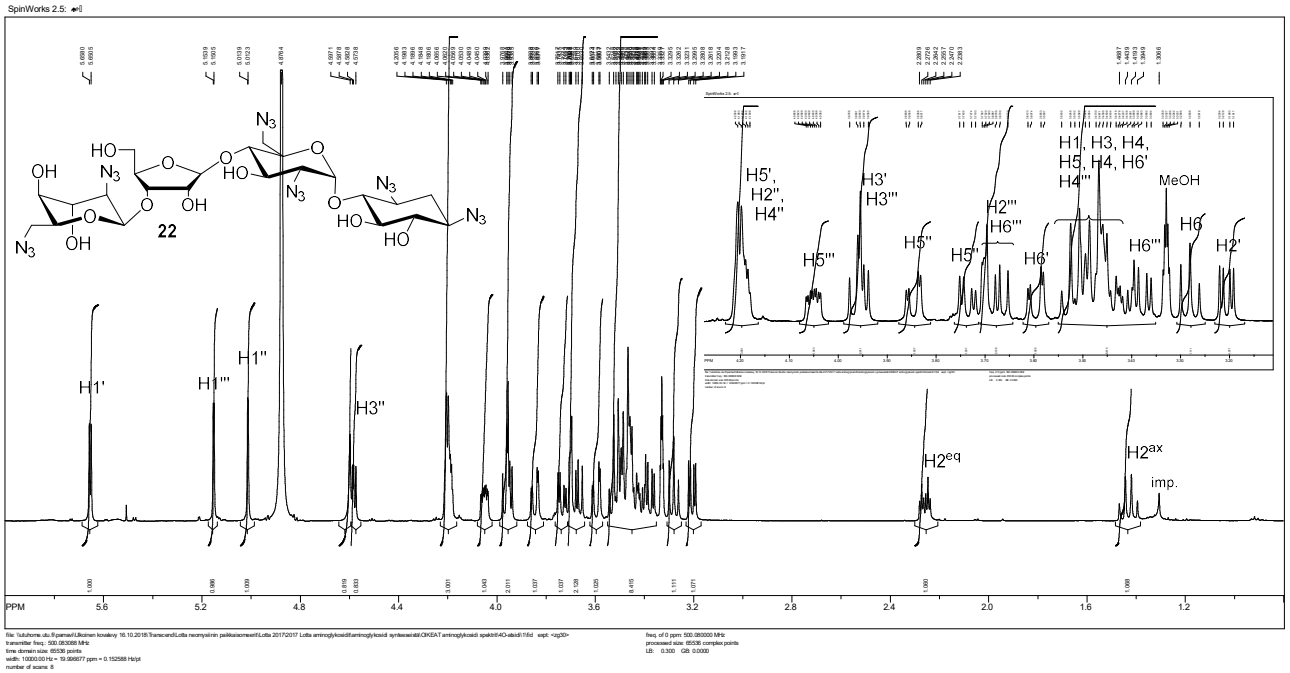

Figure S55. ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of **22**.

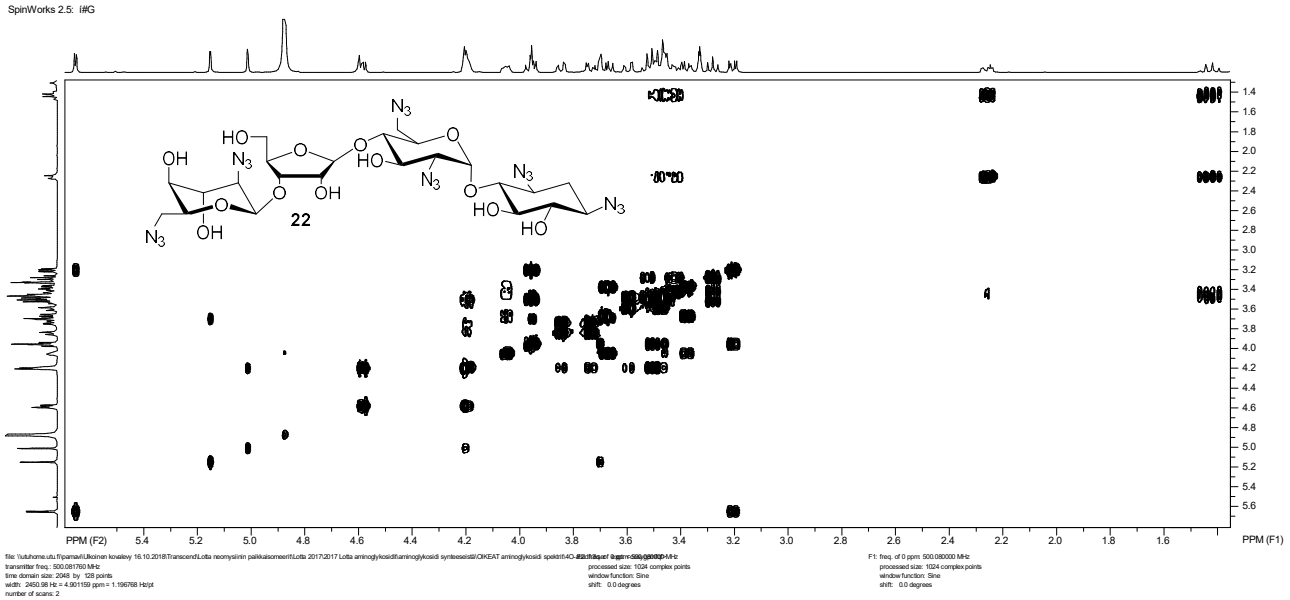

Figure S56. COSY spectrum of **22**.

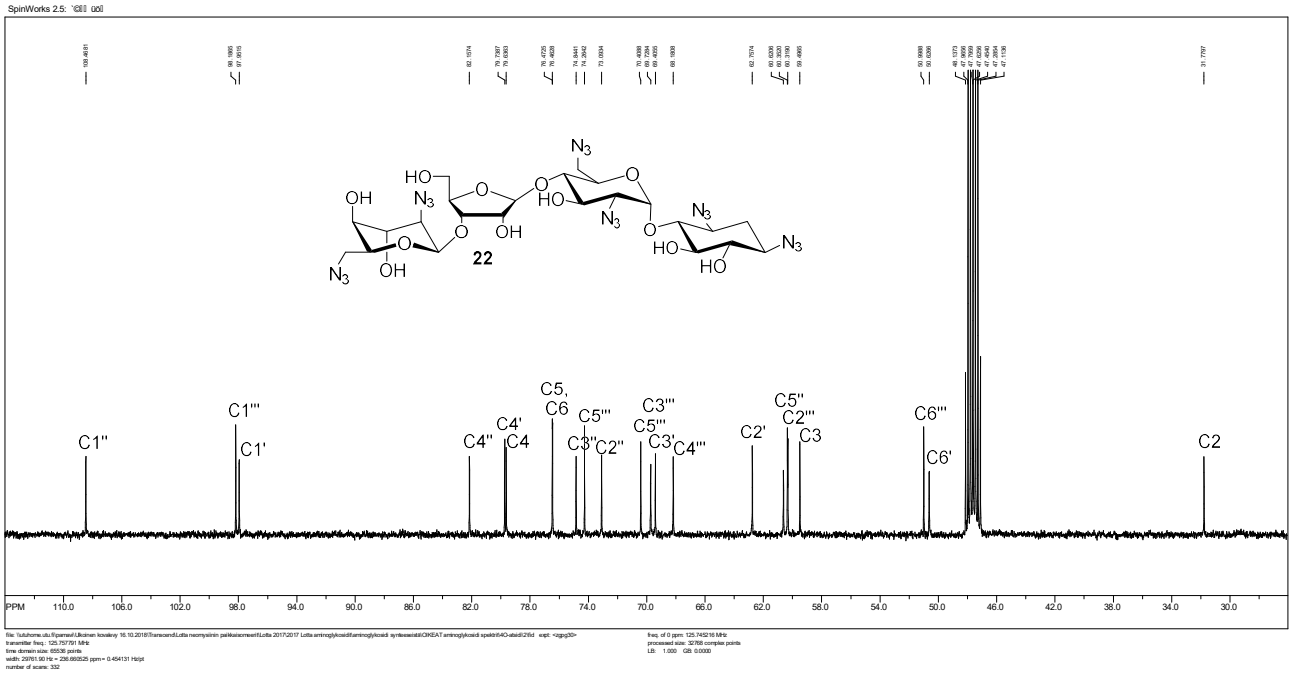

Figure S57. ^{13}C NMR (125 MHz, $CDCl_3$) spectrum of **22**.

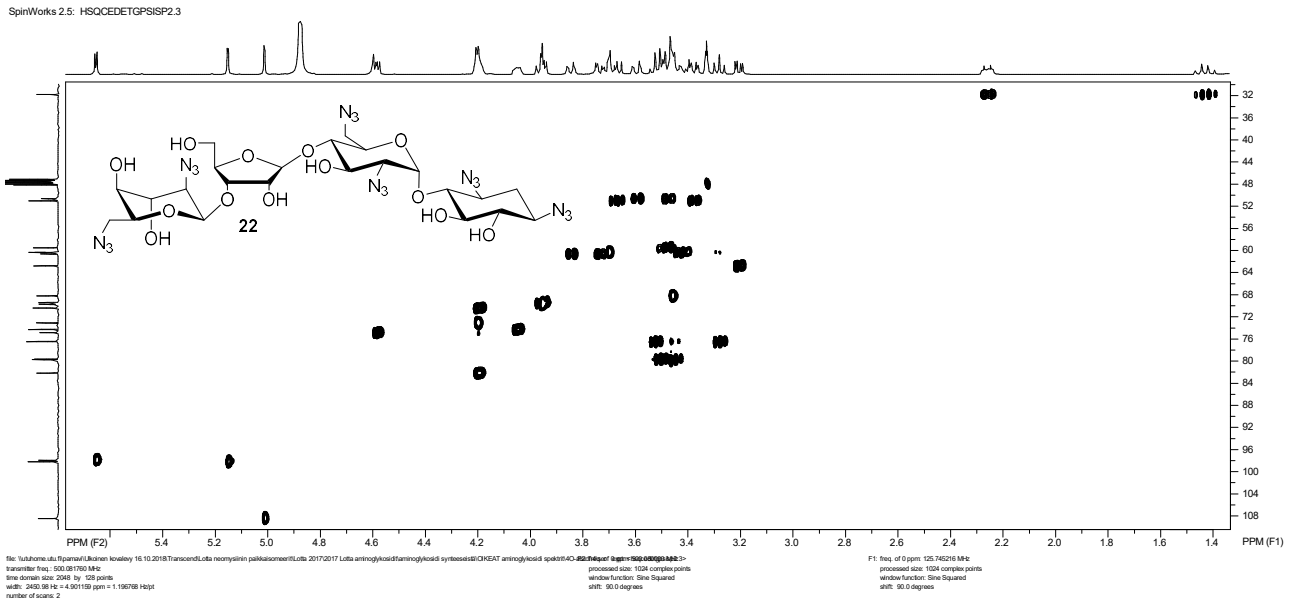

Figure S58. HSQC spectrum of **22**.

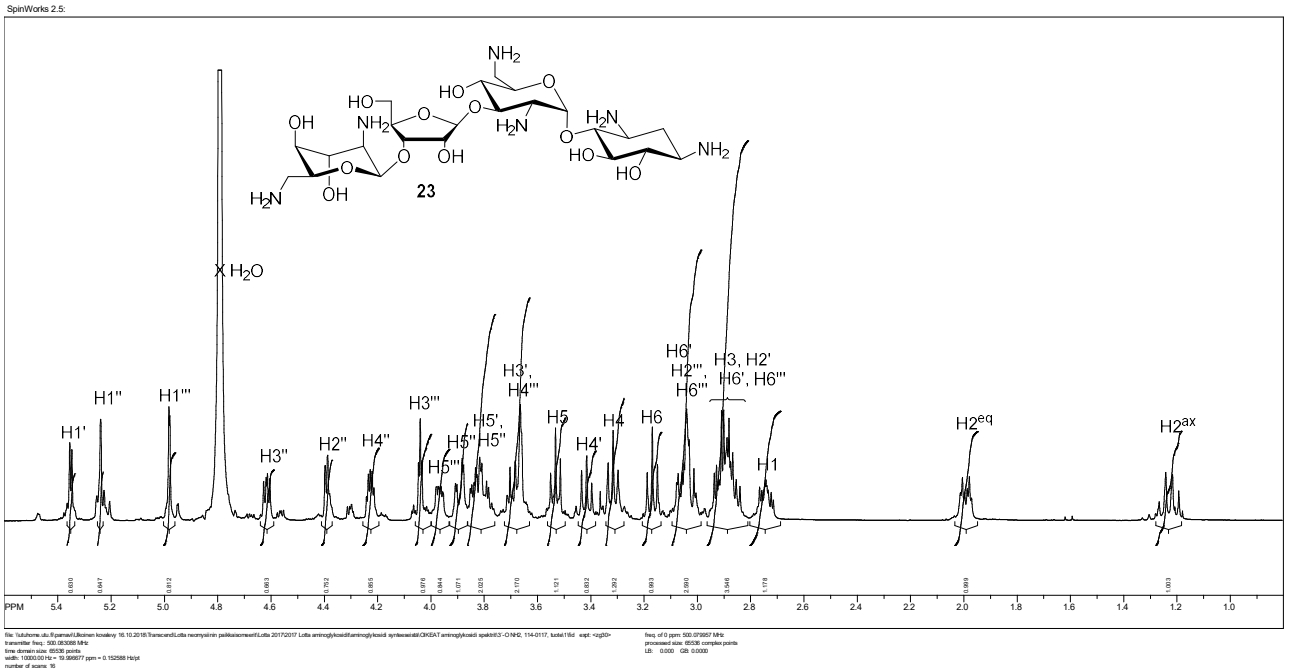

Figure S59. ^{1}H NMR (500 MHz, D_2O) spectrum of **23**.

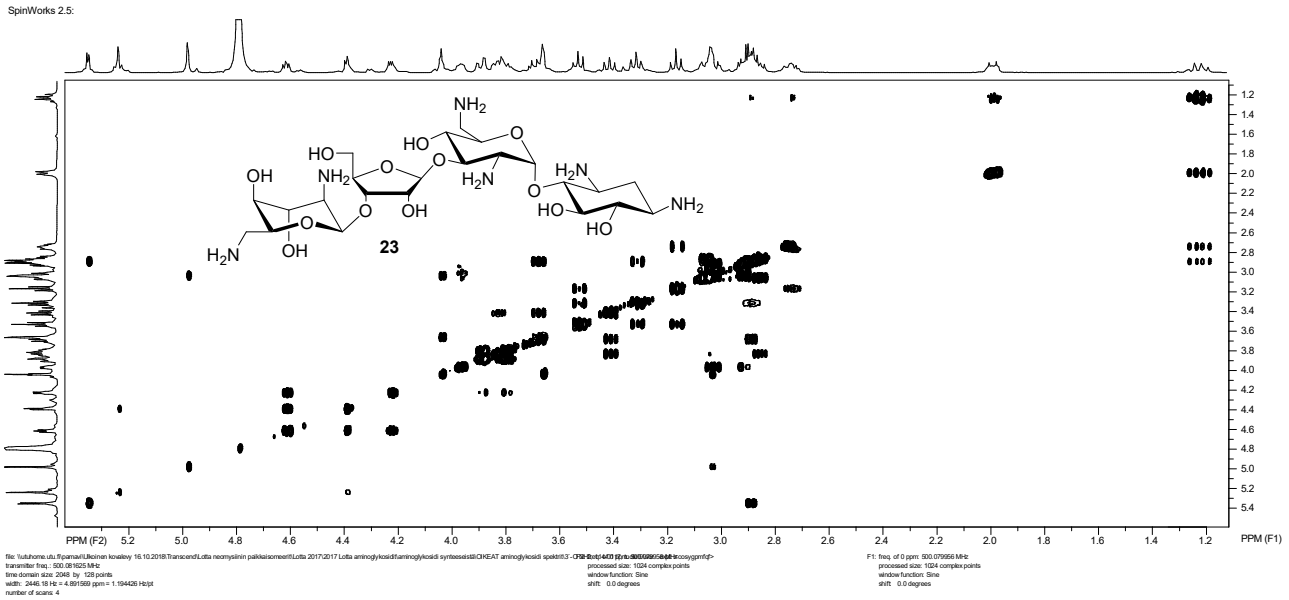

Figure S60. COSY spectrum of **23**.

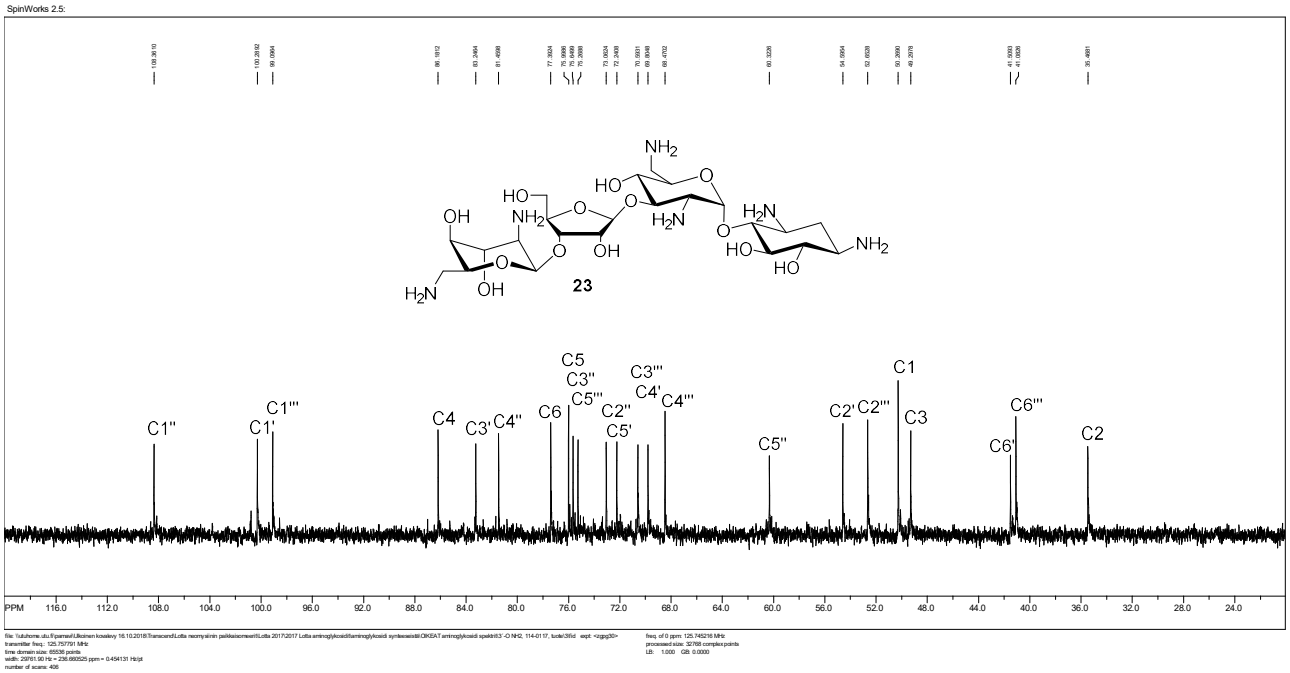

Figure S61. ^{13}C NMR (125 MHz, D_2O) spectrum of **23**.

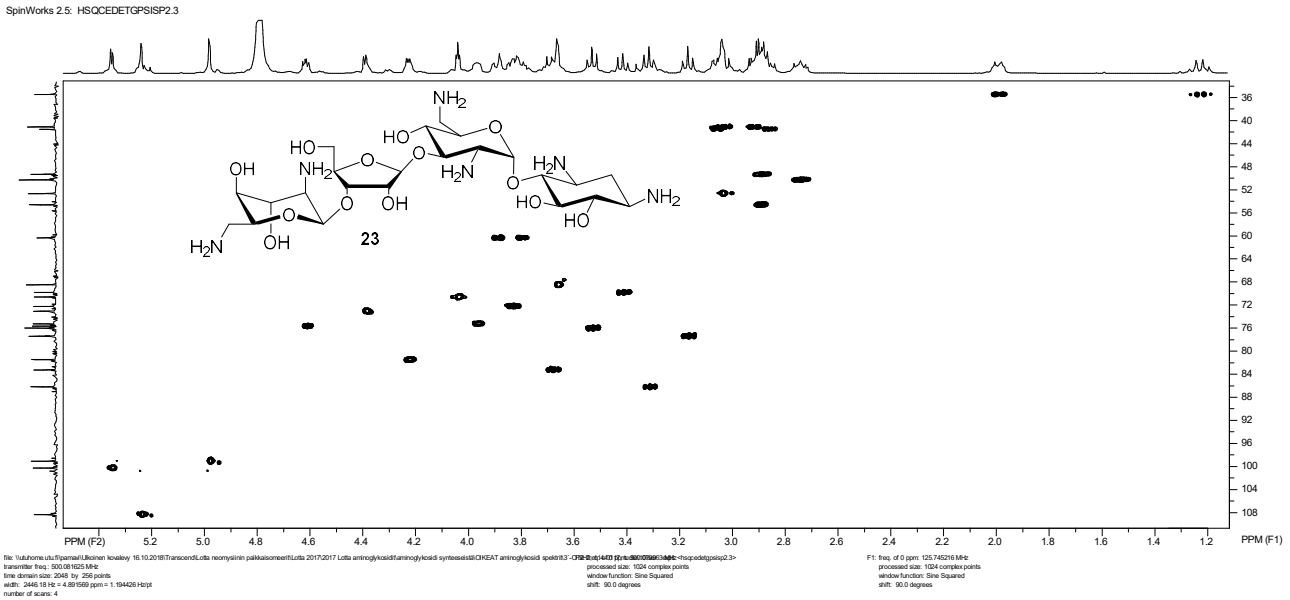

Figure S62. HSQC spectrum of **23**.

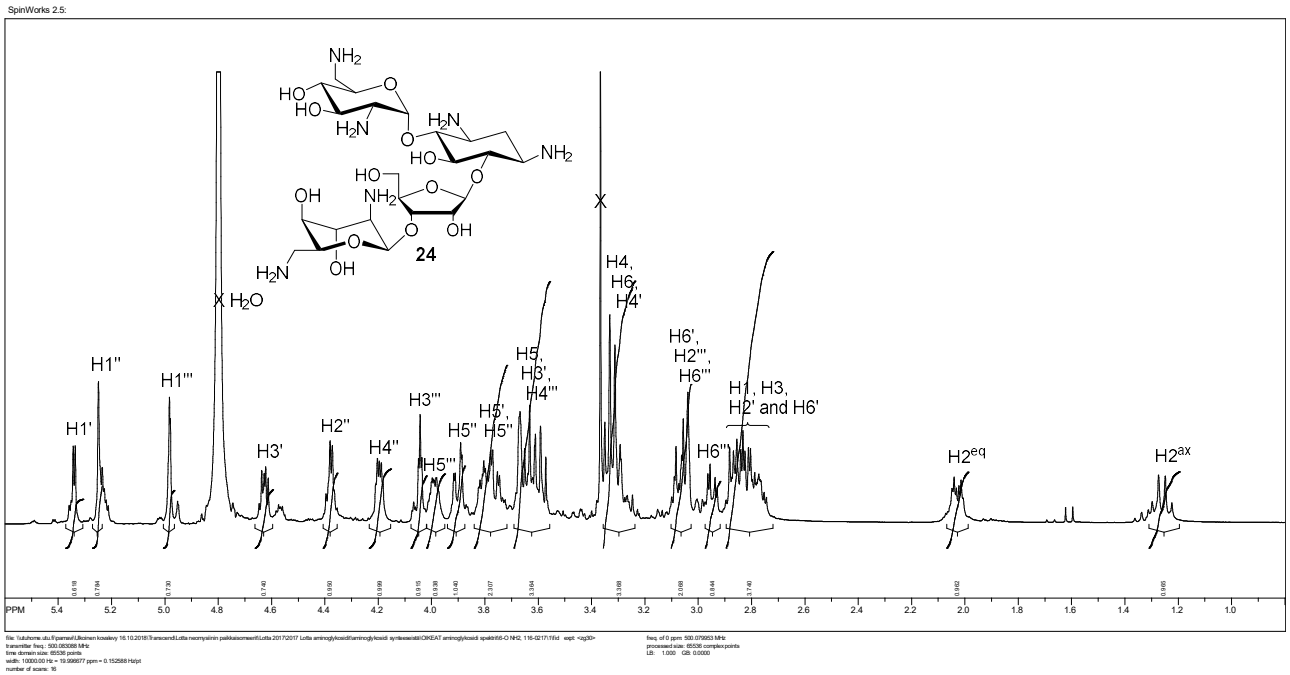

Figure S63. ^{1}H NMR (500 MHz, D_2O) spectrum of **24**.

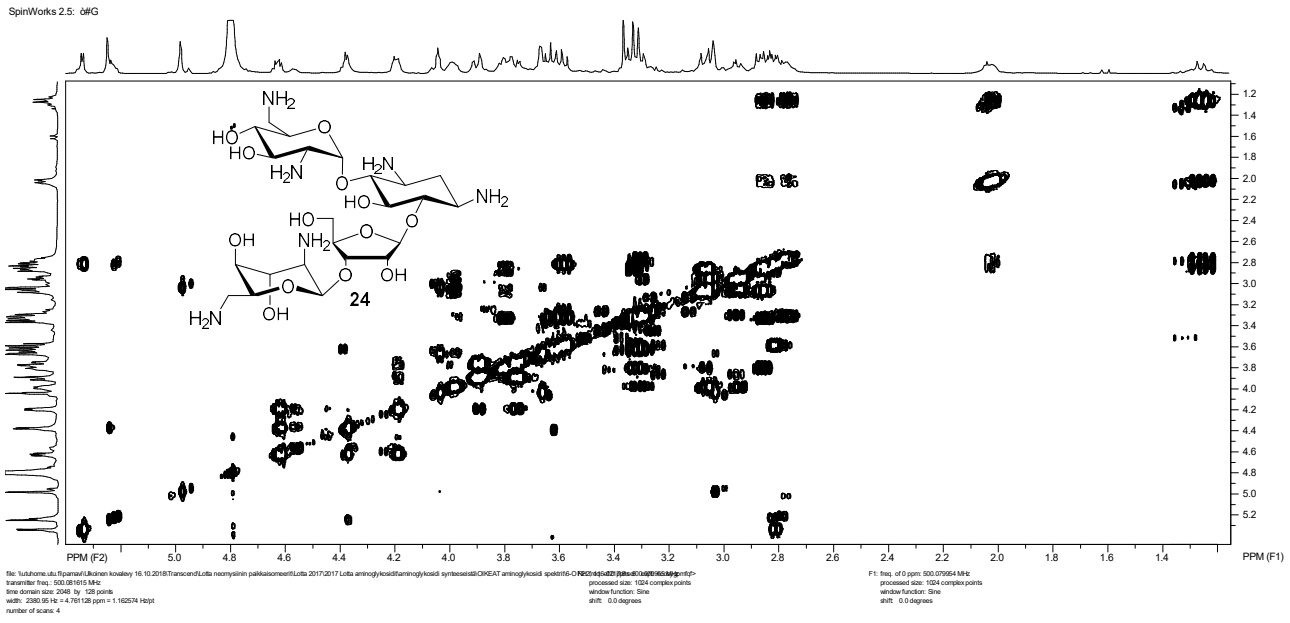

Figure S64. COSY spectrum of **24**.

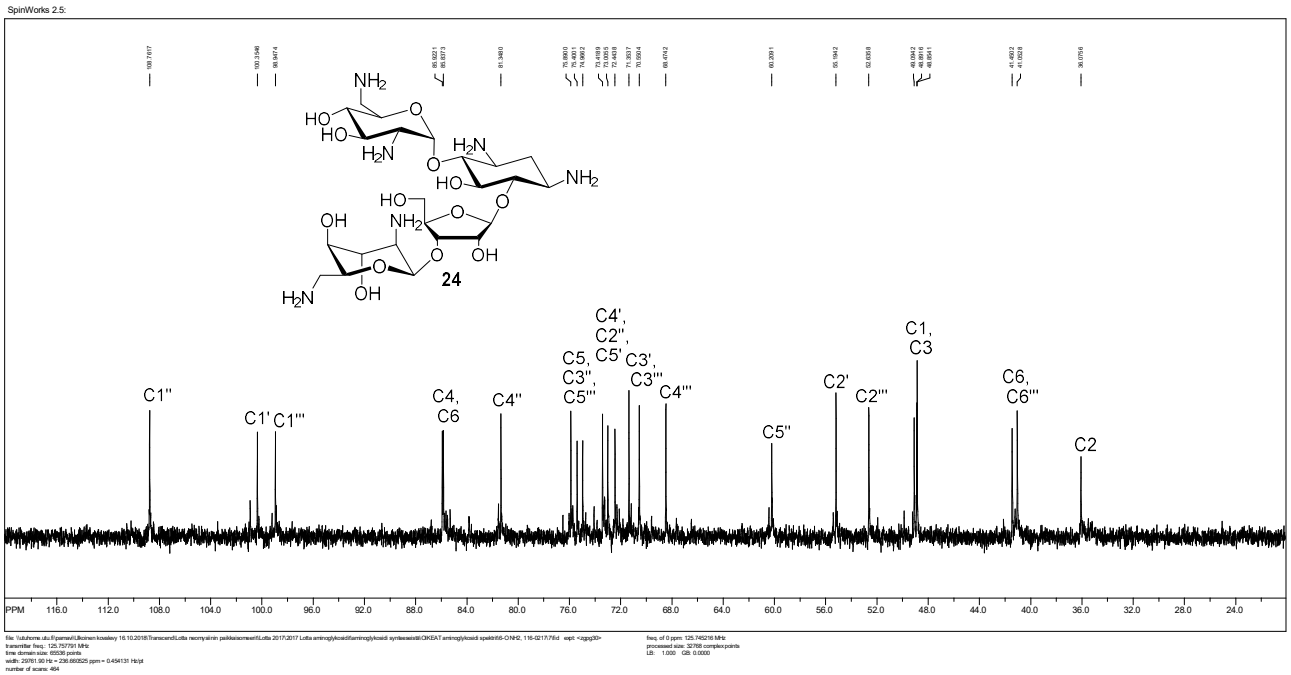

Figure S65. ^{13}C NMR (125 MHz, D_2O) spectrum of **24**.

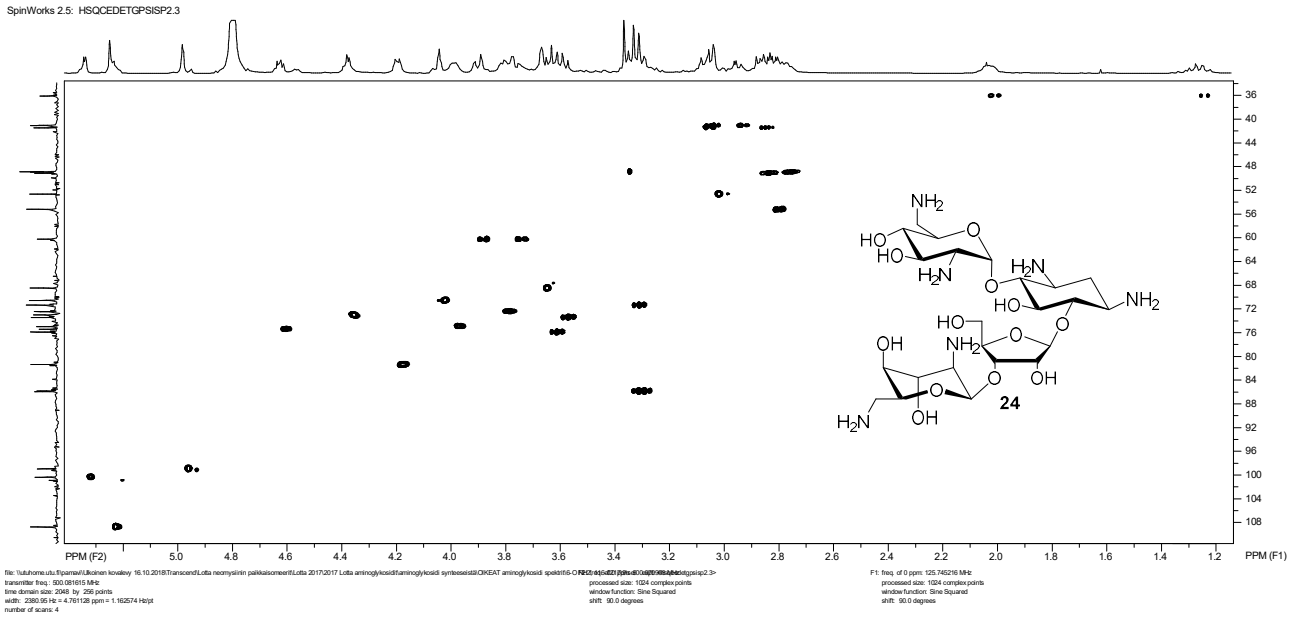

Figure S66. HSQC spectrum of **24**.

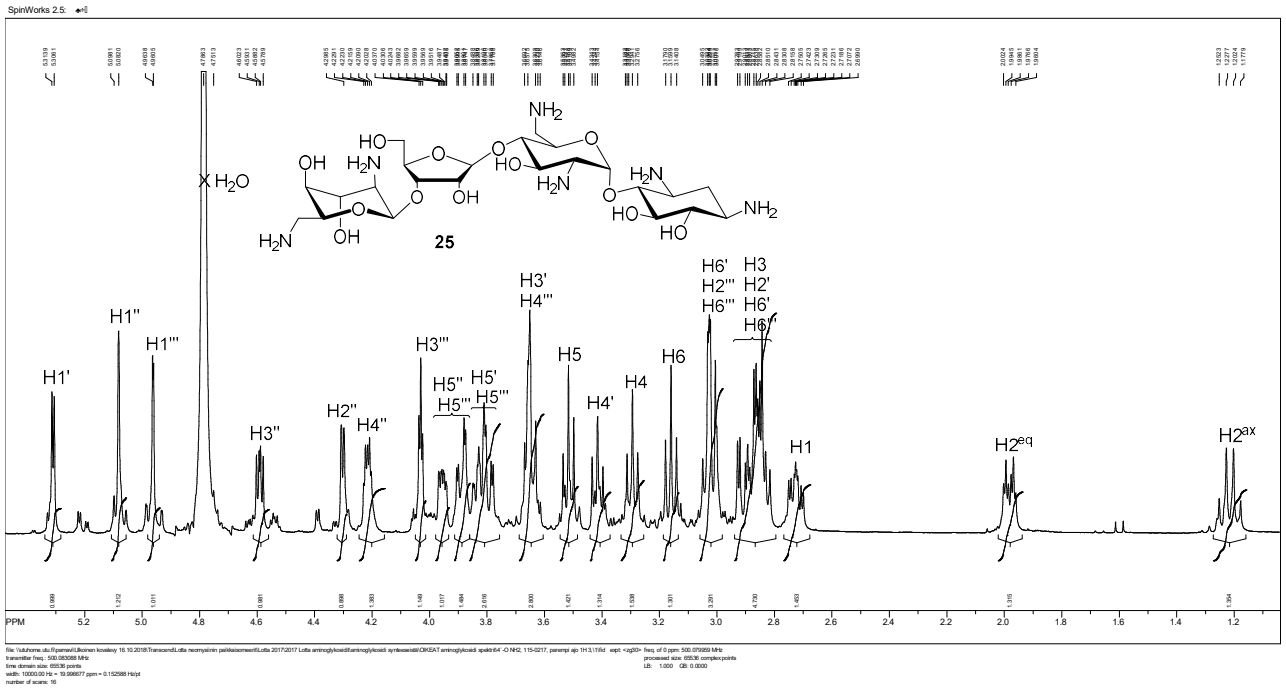

Figure S67. ^{1}H NMR (500 MHz, D_2O) spectrum of **25**.

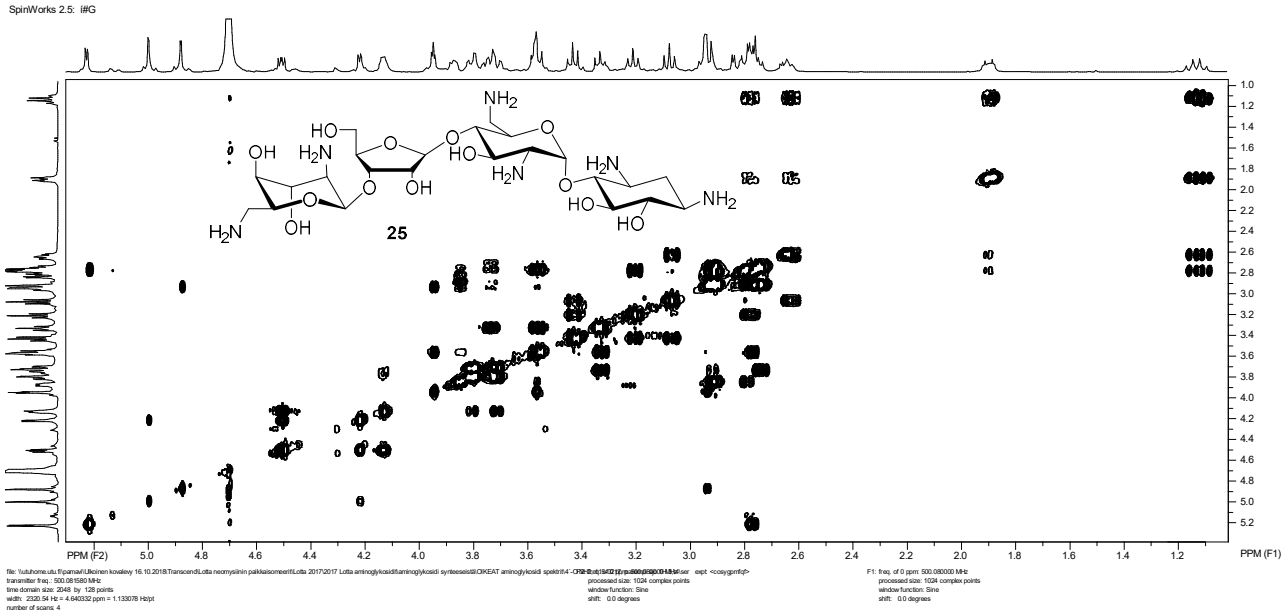

Figure S68. COSY pectrum of **25**.

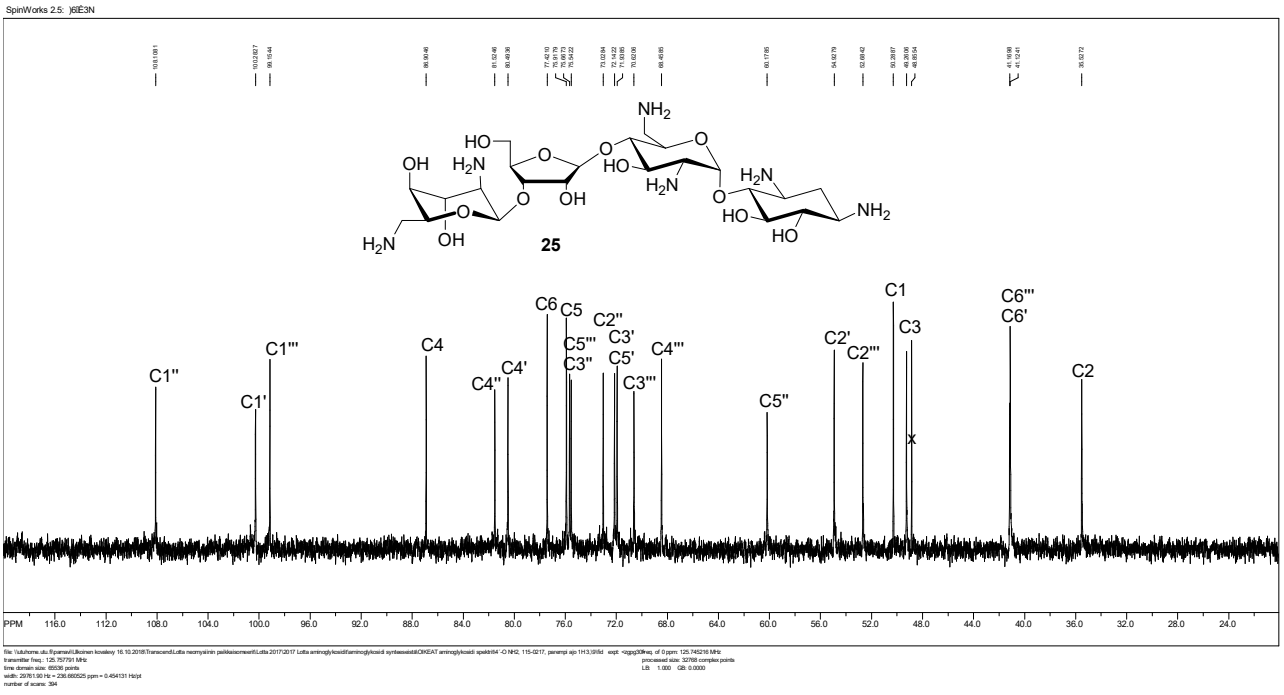

Figure S69. ^{13}C NMR (125 MHz, D_2O) spectrum of **25**.

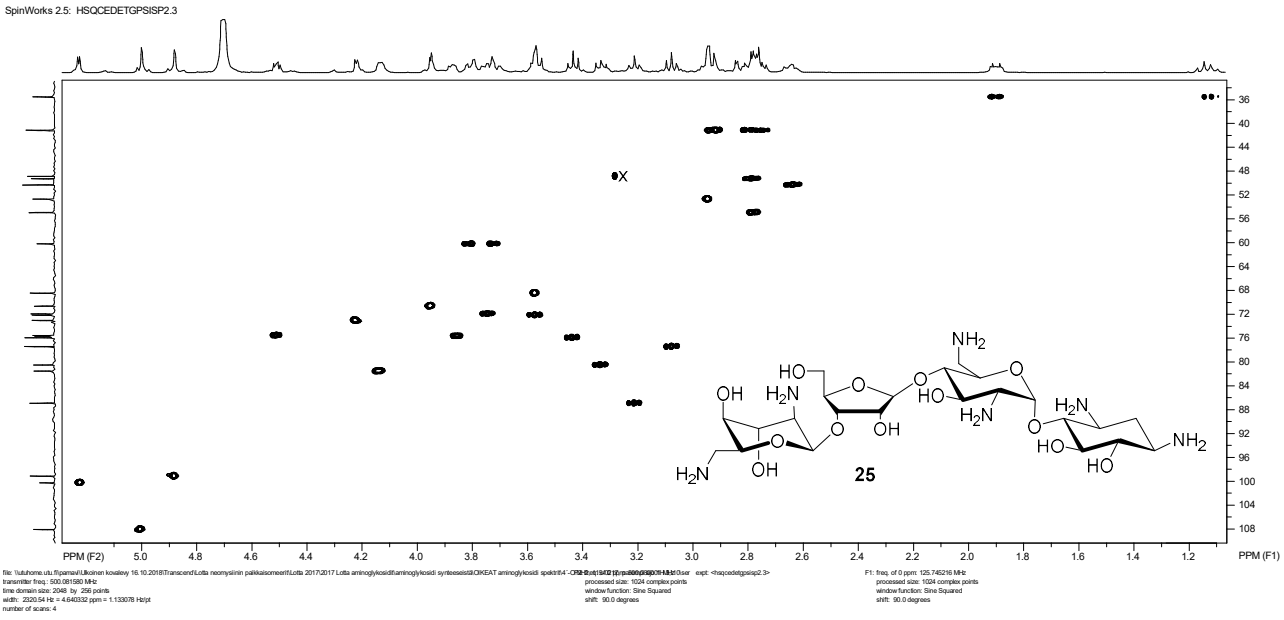

Figure S70. HSQC spectrum of **25**.