

Supplemental Material

Designing liquid-crystalline dendronized hexa-adducts of [60]fullerene via click chemistry

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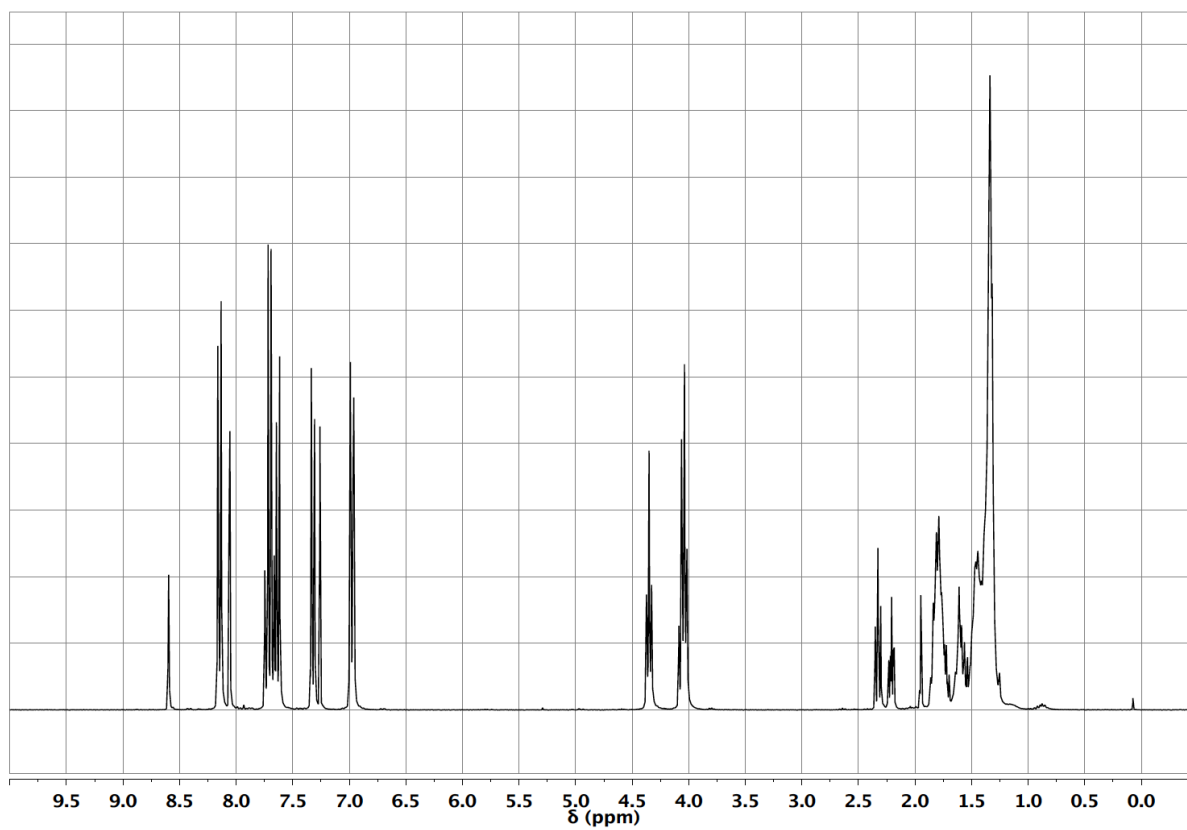


Figure S1. ^1H NMR spectrum of **4** (CDCl_3 , 300 MHz).

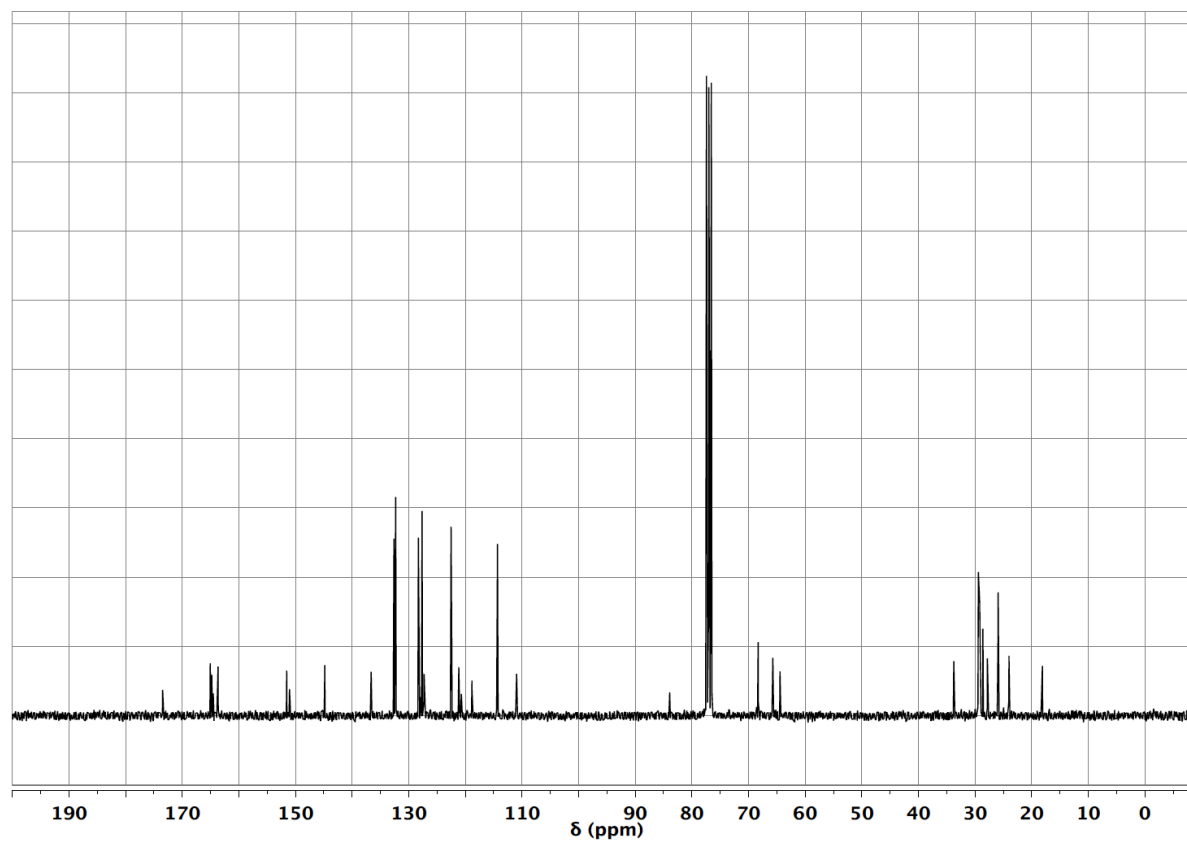


Figure S2. ^{13}C NMR spectrum of **4** (CDCl_3 , 75 MHz).

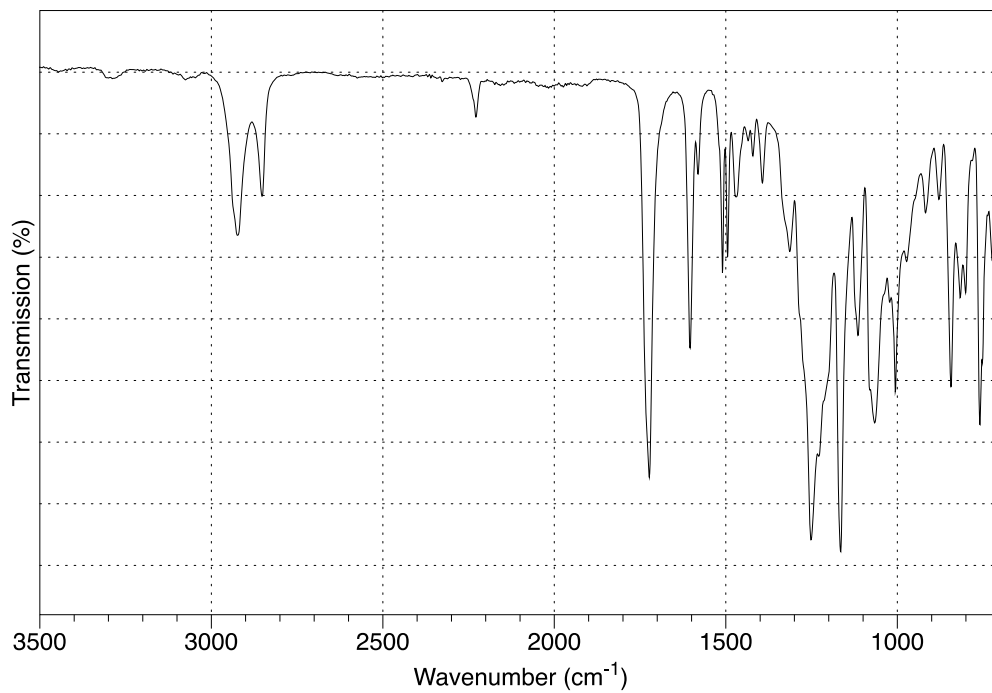


Figure S3. IR spectrum of **4**.

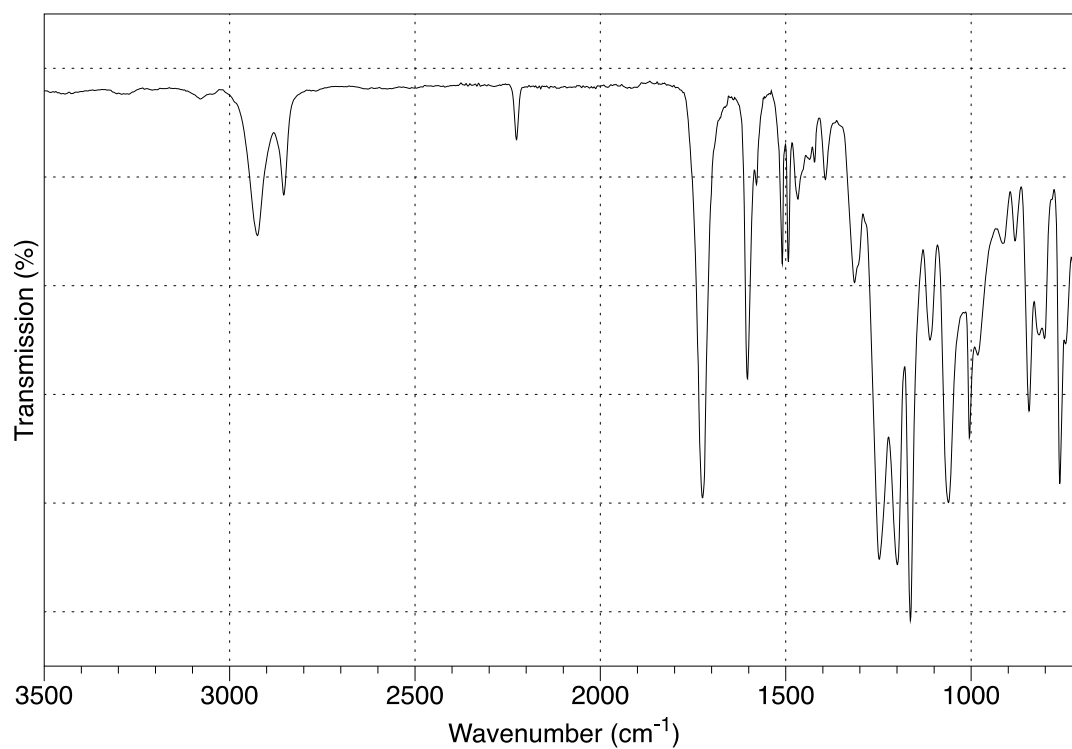


Figure S6. IR spectrum of **5**.

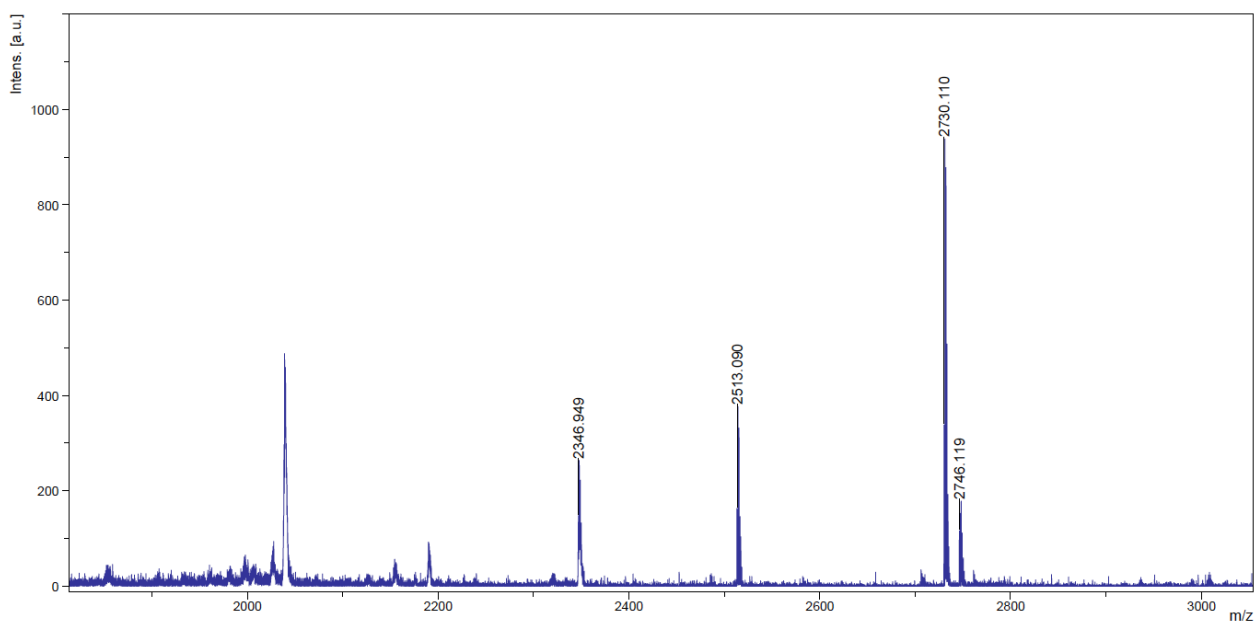


Figure S7. MALDI-TOF mass spectrum of **5**.

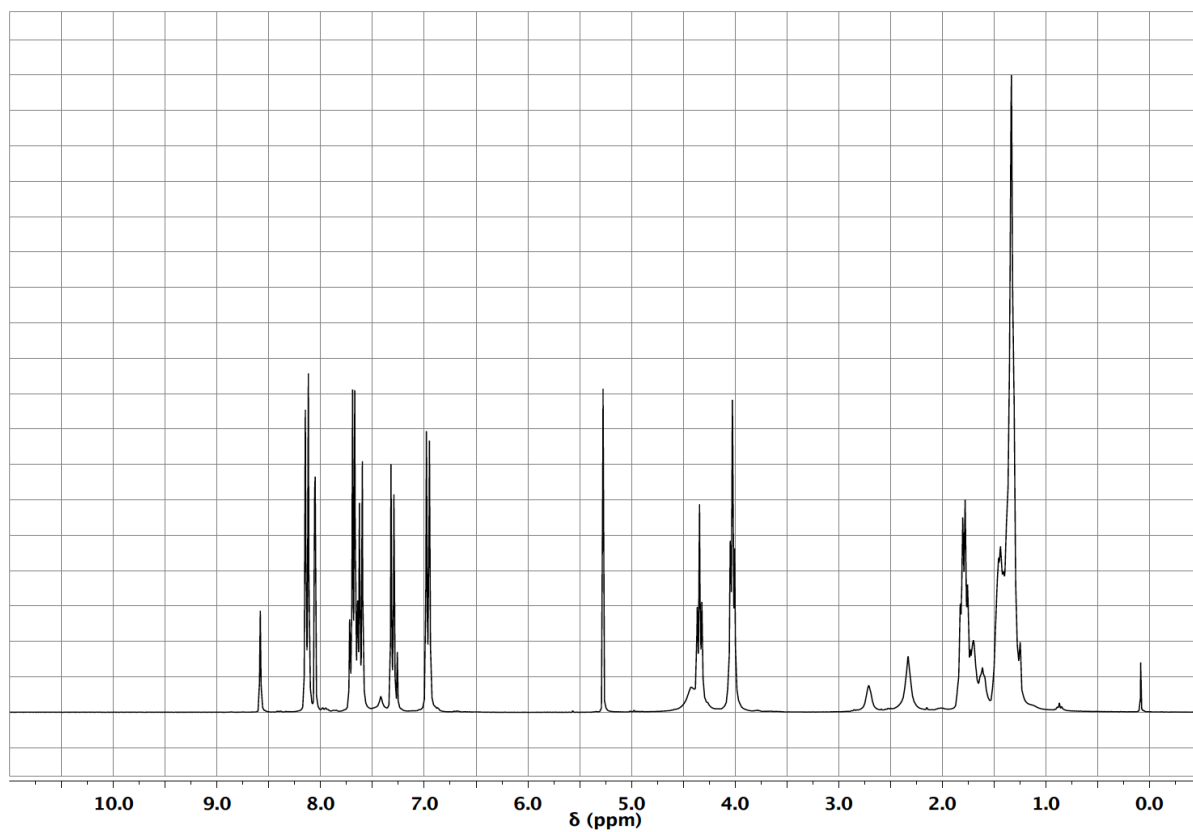


Figure S8. ^1H NMR spectrum of **1** (CDCl_3 , 300 MHz).

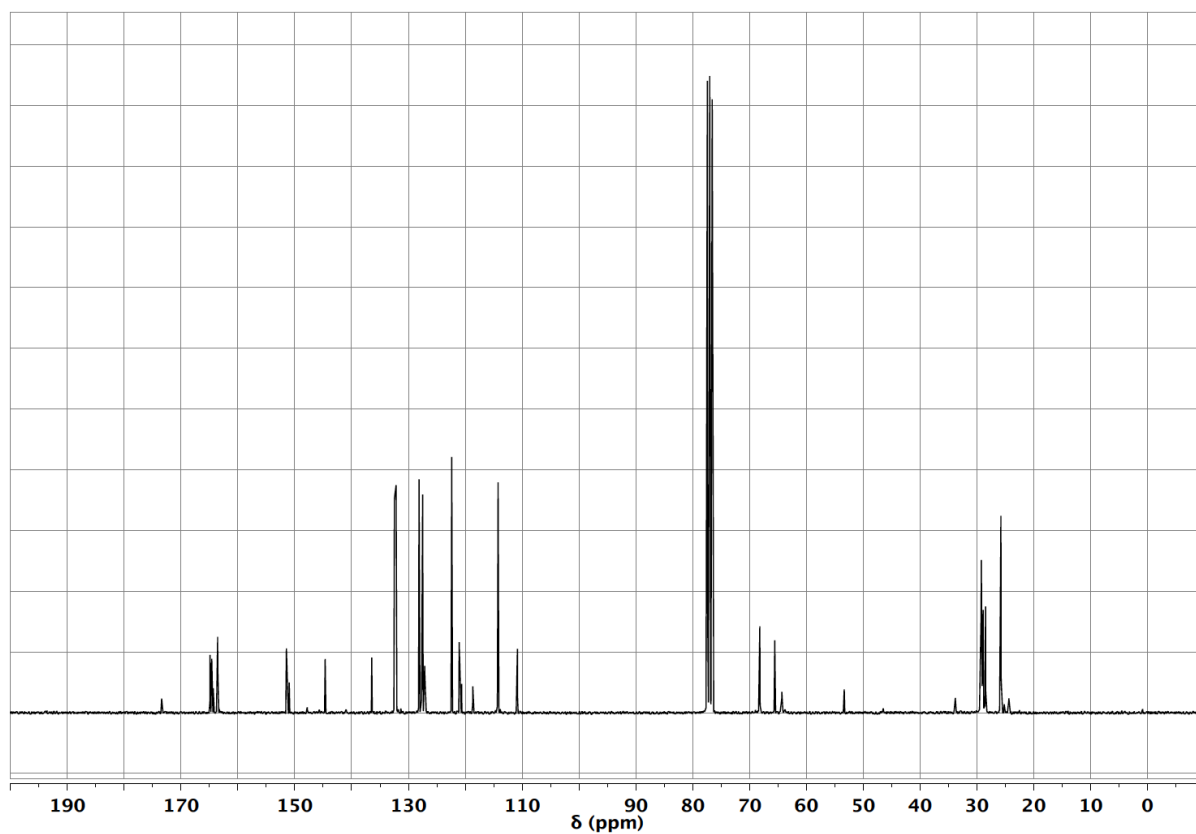


Figure S9. ^{13}C NMR spectrum of **1** (CDCl_3 , 75 MHz).

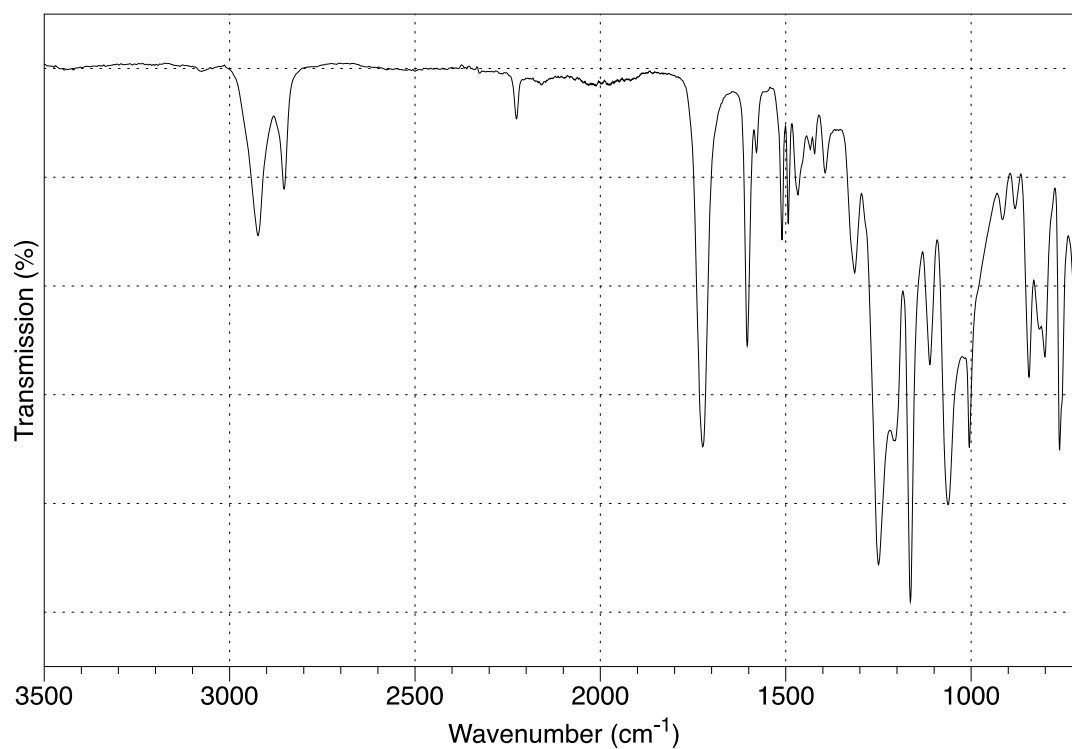


Figure S10. IR spectrum of **1**.

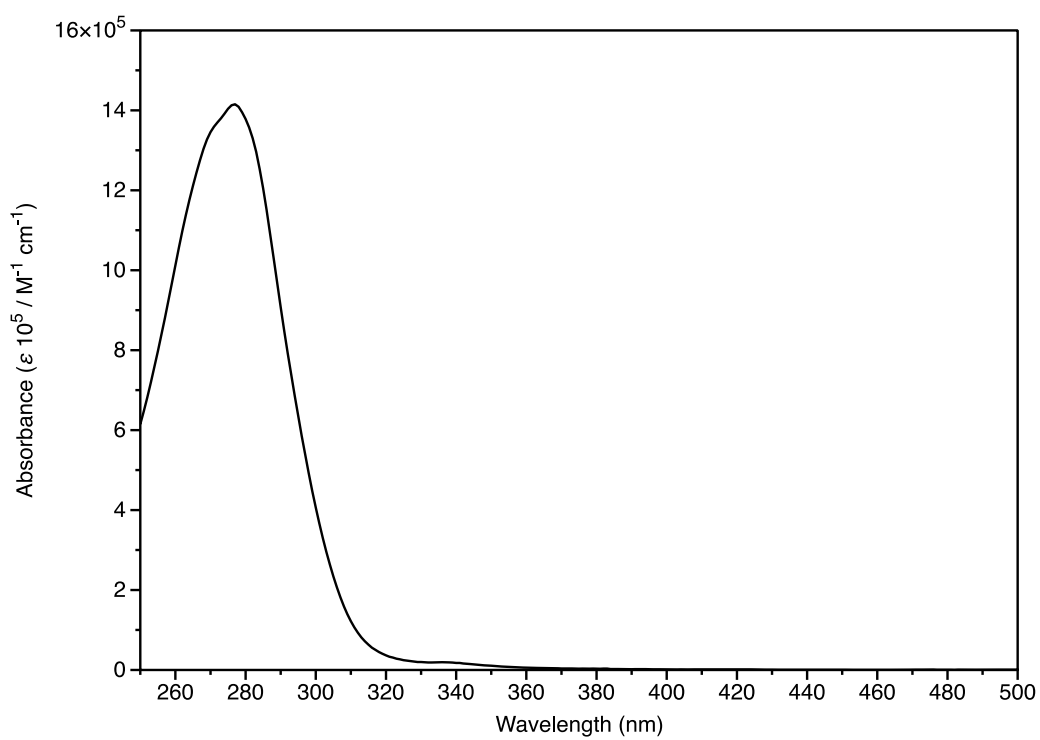


Figure S11. UV-vis spectrum of **1** in CH_2Cl_2 .

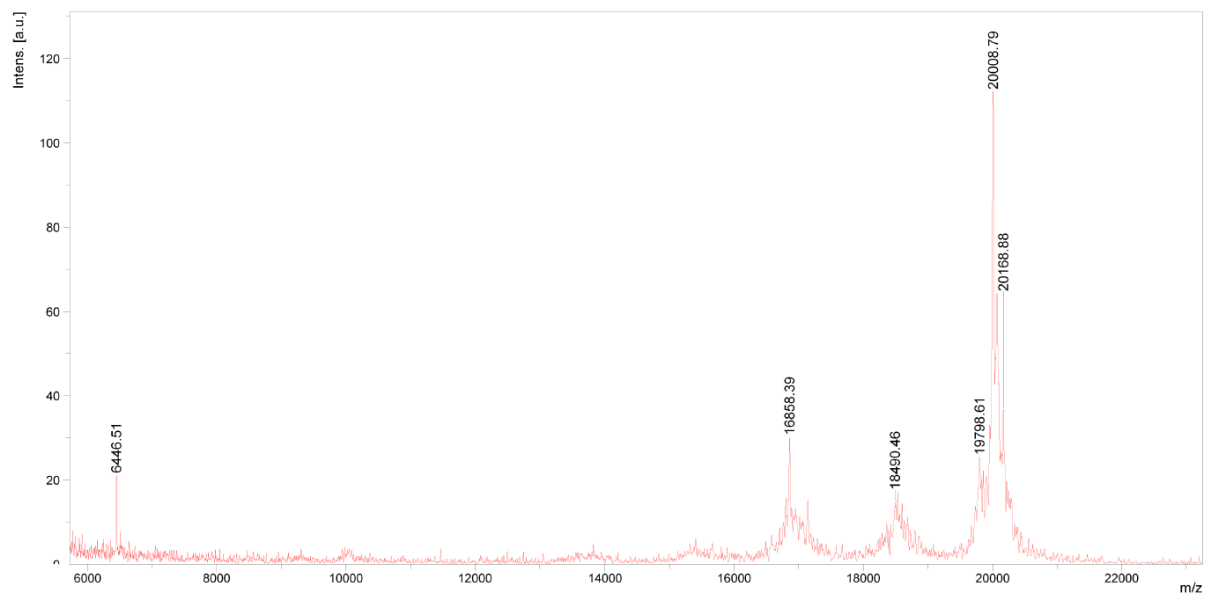


Figure S12. MALDI-TOF mass spectrum of **1**.

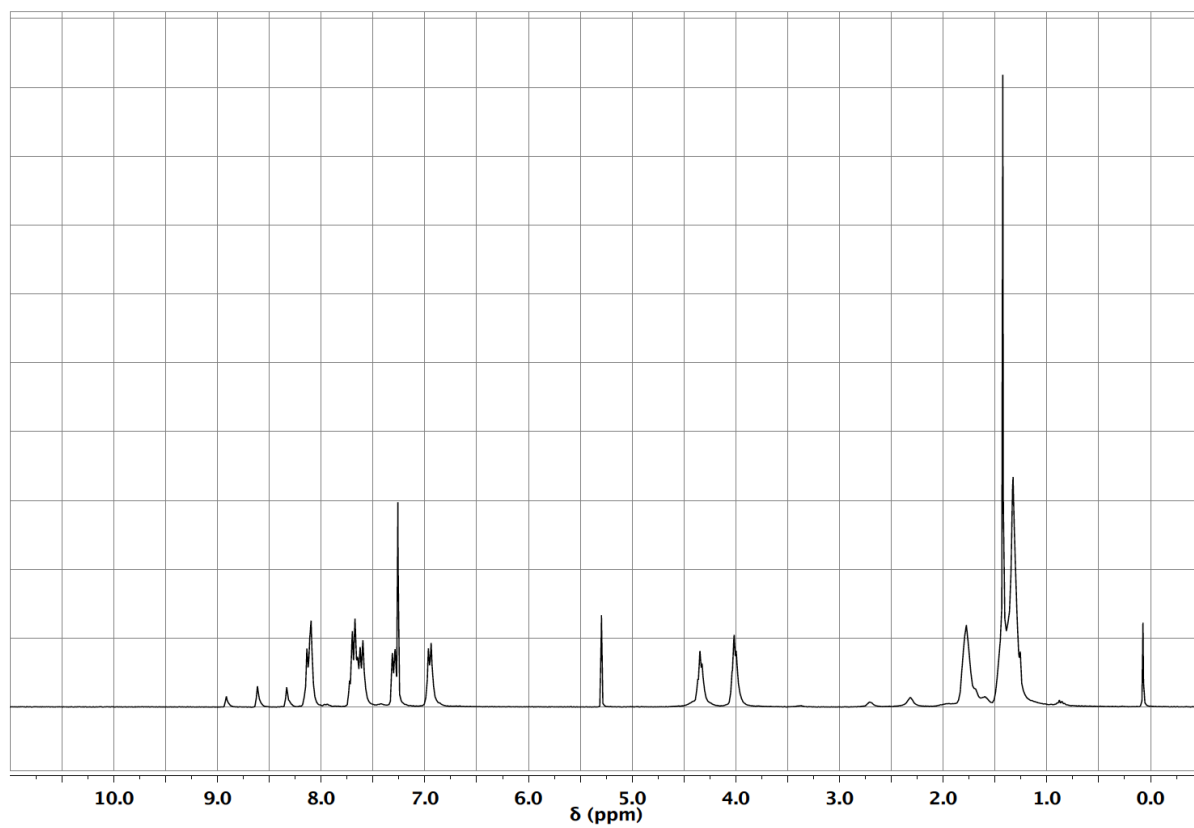


Figure S13. ^1H NMR spectrum of **2** (CDCl_3 , 300 MHz).

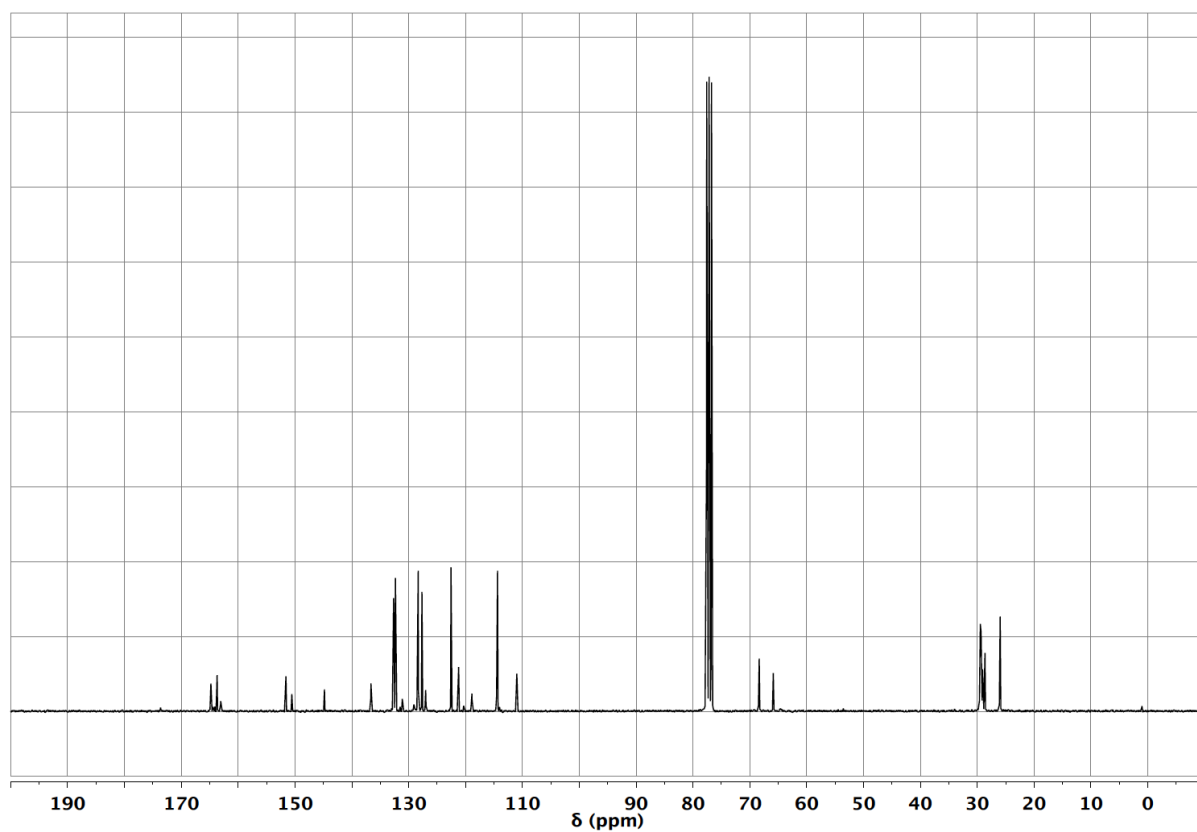


Figure S14. ^{13}C NMR spectrum of **2** (CDCl_3 , 100 MHz).

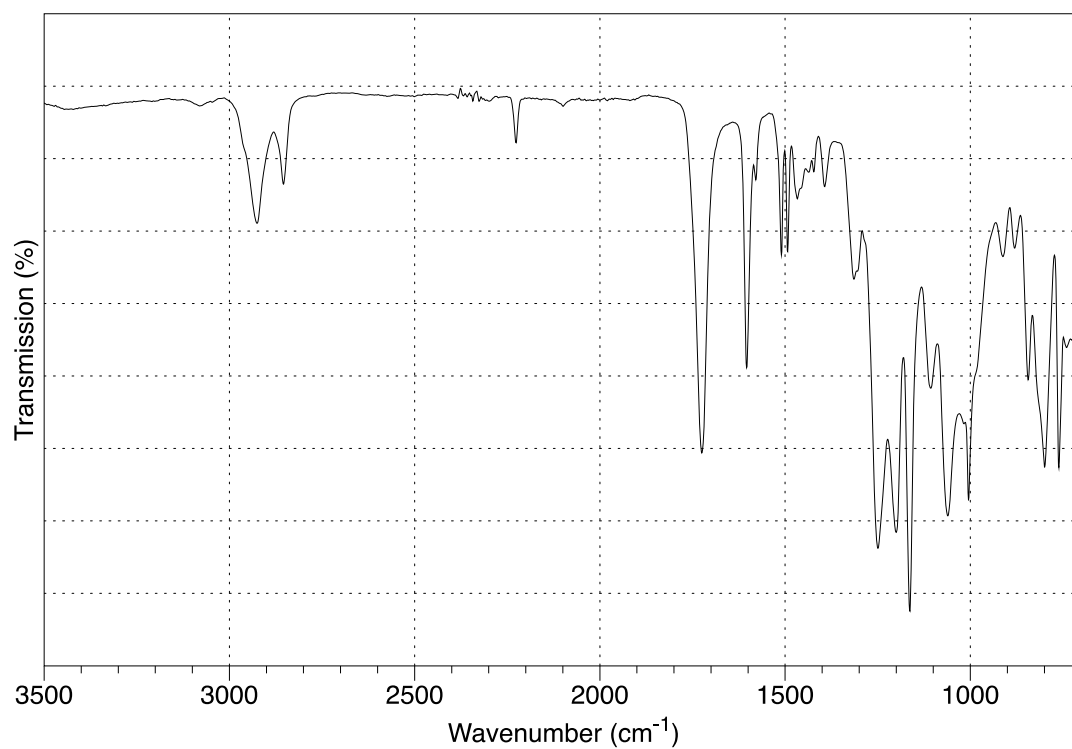


Figure S15. IR spectrum of **2**.

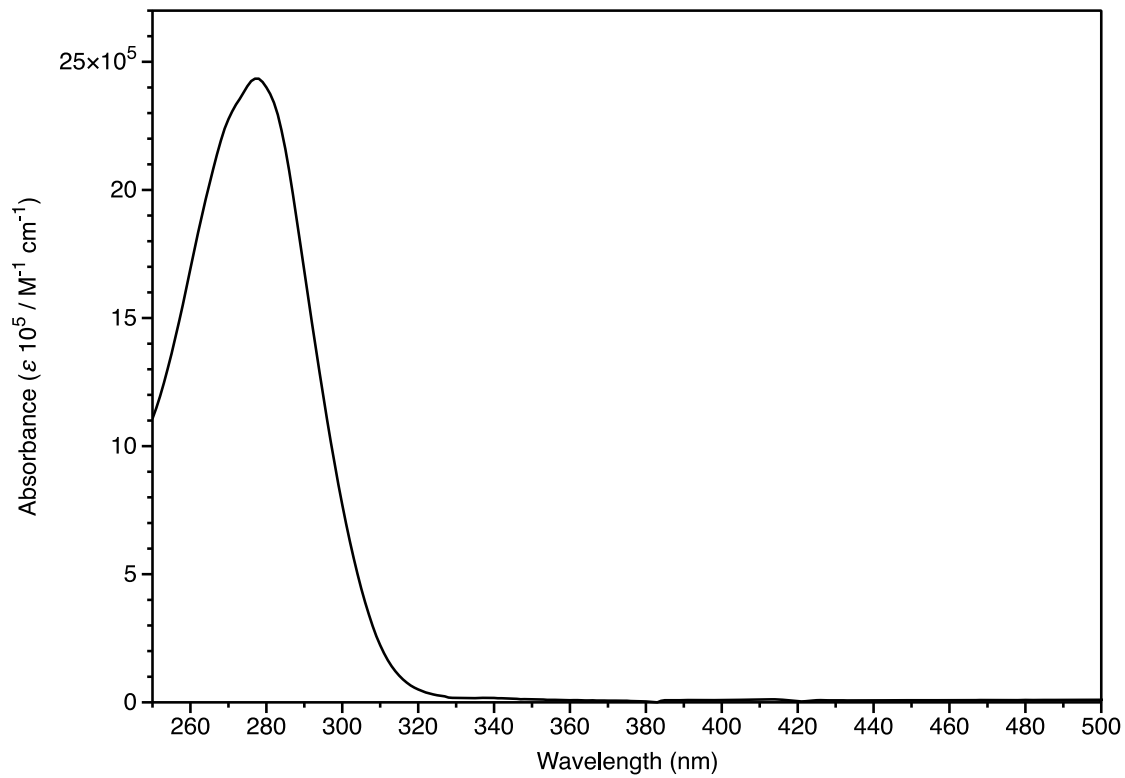


Figure S16. UV-vis spectrum of **2** in CH₂Cl₂.

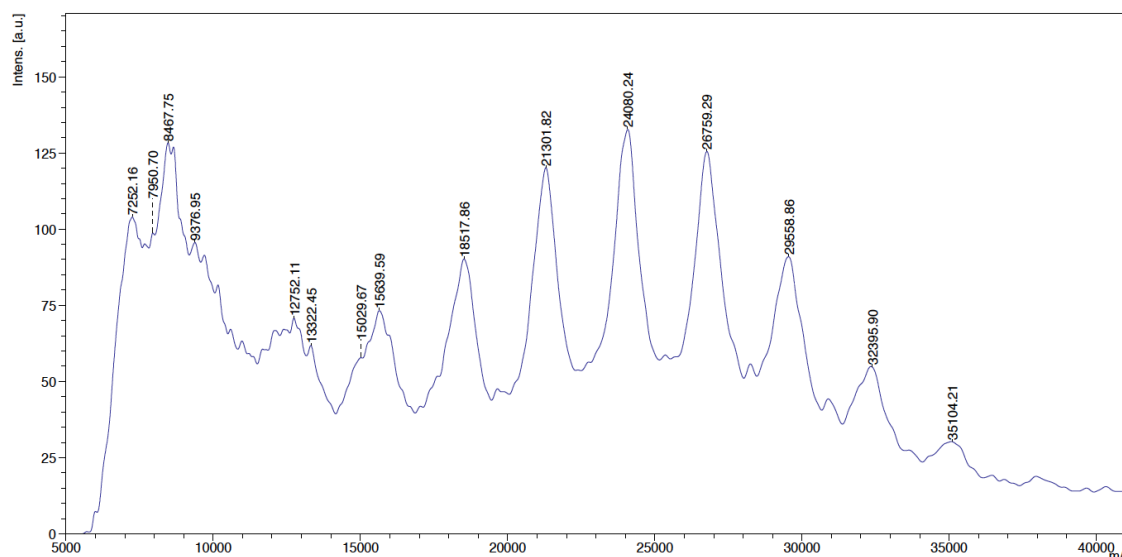


Figure S17. MALDI-TOF mass spectrum of **2**. Fragmentation results from retro-Bingel reactions and ester hydrolysis followed by decarboxylation of the resulting carboxylate. [1]

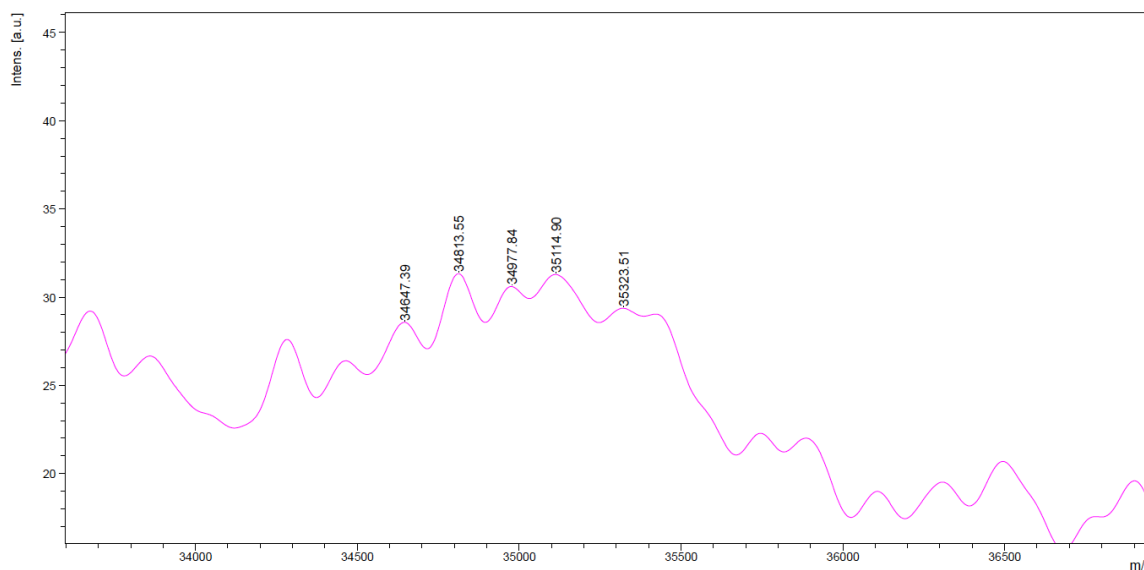


Figure S18. Magnification of MALDI-TOF mass spectrum of **2**. In addition to fragmentation, matrix adducts are also observed thus giving rise to peaks at molecular weight higher than that of the analyzed compound. [1]

References

- [1] Durka M, Buffet K, Iehl J, Holler M, Nierengarten J-F, Vincent S P. The inhibition of liposaccharide heptosyltransferase WaaC with multivalent glycosylated fullerene: a new mode of glycosyltransferase inhibition. *Chem Eur J.* 2012;18:641-651.