

Generation of Aurachin Derivatives by Whole-Cell Biotransformation and Evaluation of their Antiprotozoal Properties

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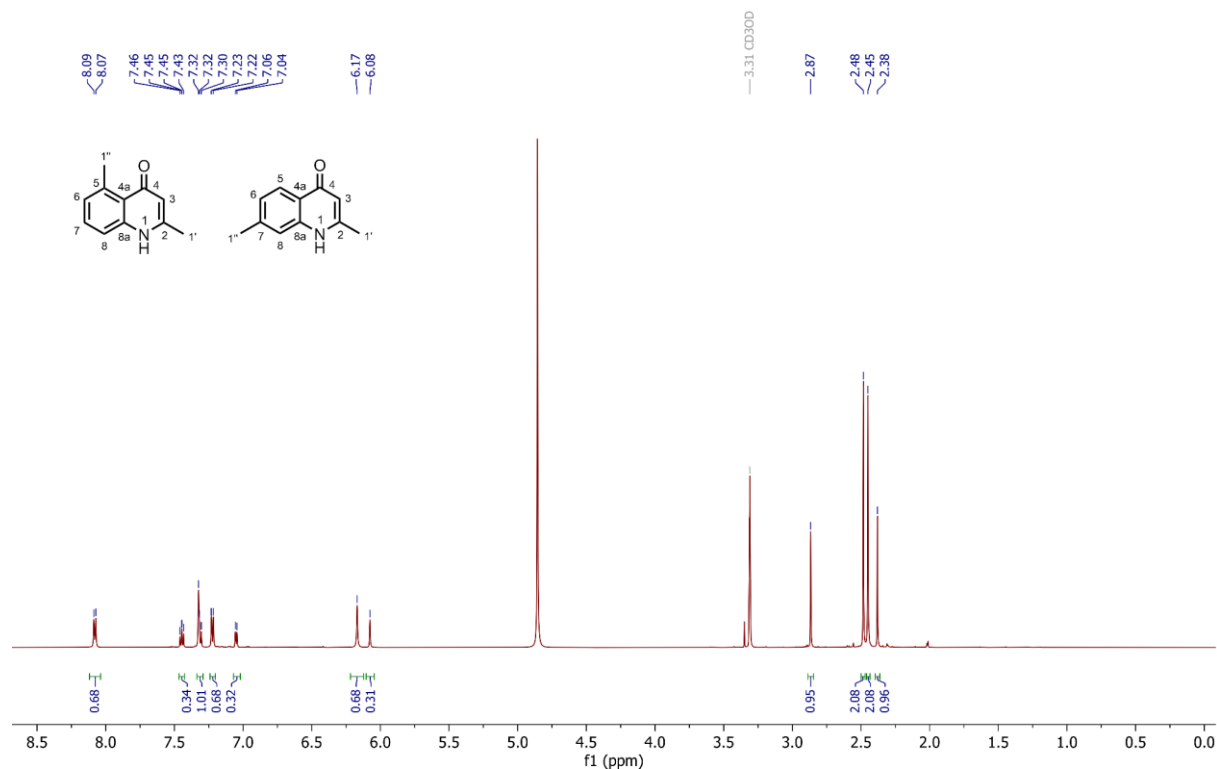


Figure S1. ¹H NMR spectrum (600 MHz, methanol-*d*₄) of a mixture of 2,7-dimethyl-1*H*-quinolin-4-one (**Ya**) and 2,5-dimethyl-1*H*-quinolin-4-one (**Ya'**).

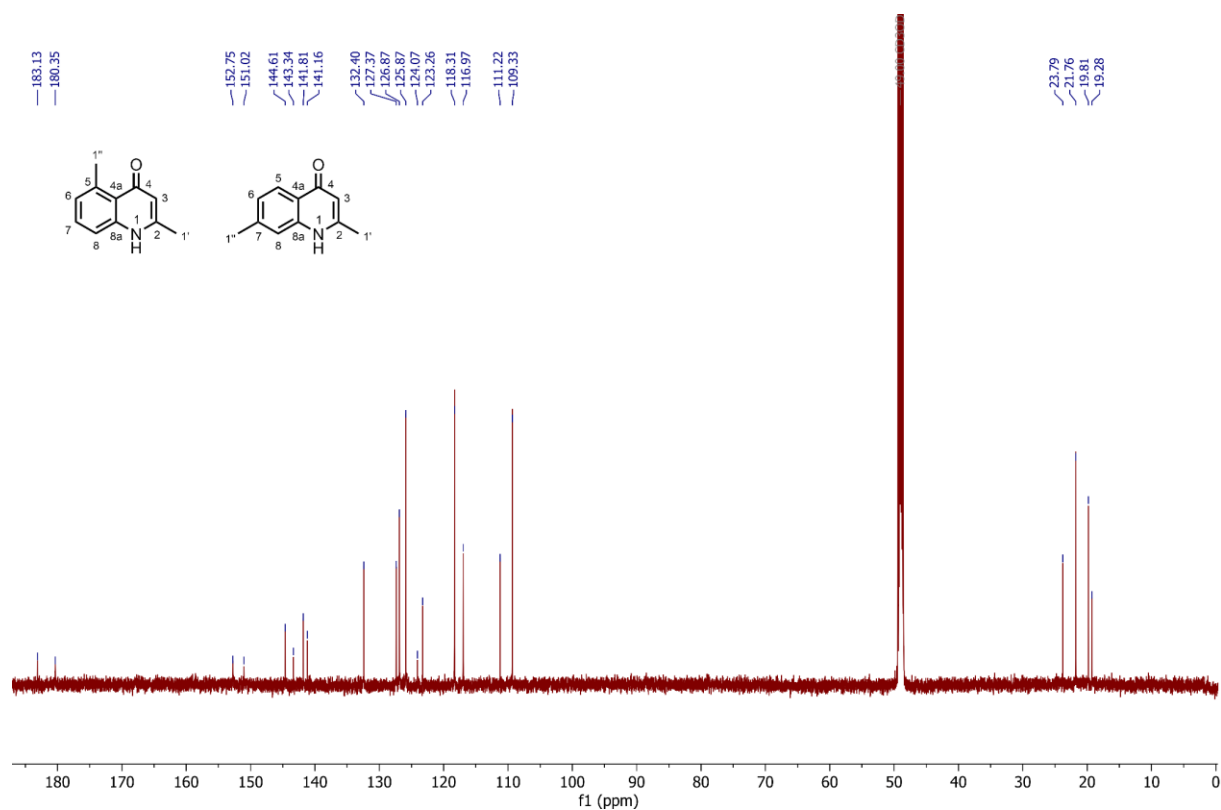


Figure S2. ¹H-decoupled ¹³C NMR spectrum (150 MHz, methanol-*d*₄) of a mixture of 2,7-dimethyl-1*H*-quinolin-4-one (**Ya**) and 2,5-dimethyl-1*H*-quinolin-4-one (**Ya'**).

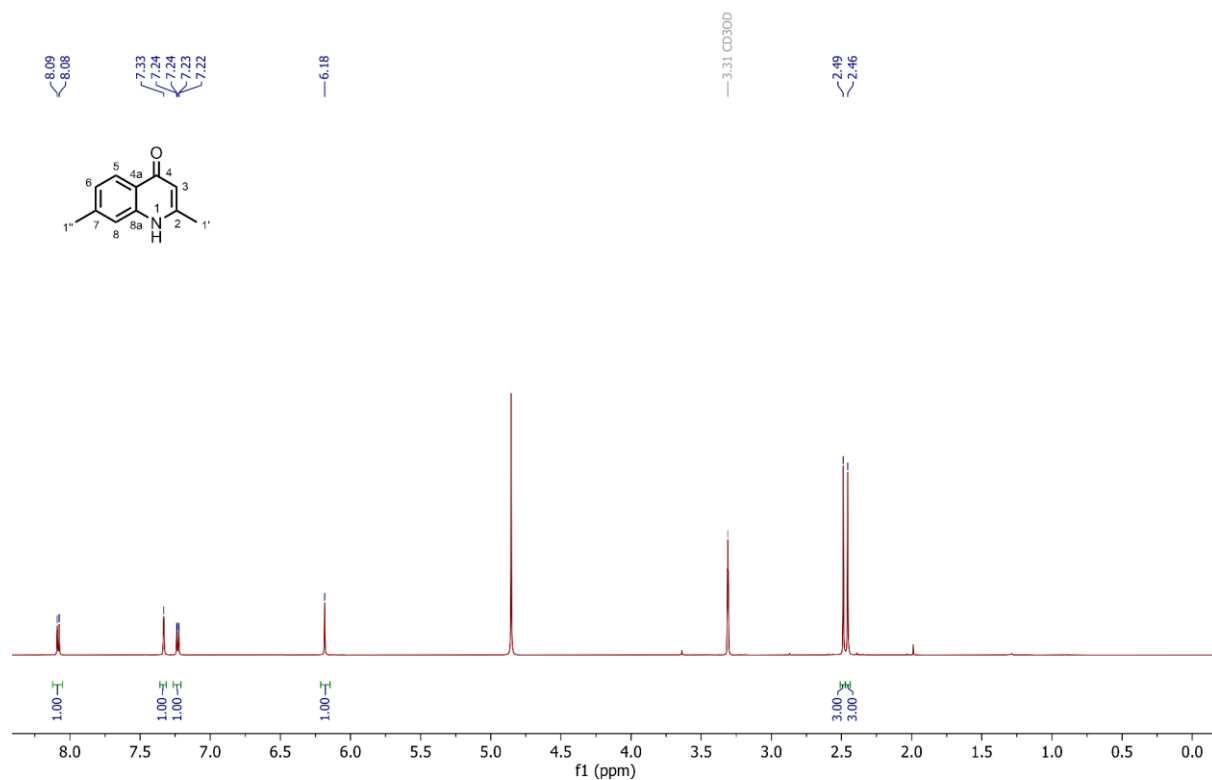


Figure S3. ^1H NMR spectrum (600 MHz, methanol- d_4) of 2,7-dimethyl-1H-quinolin-4-one (Ya).

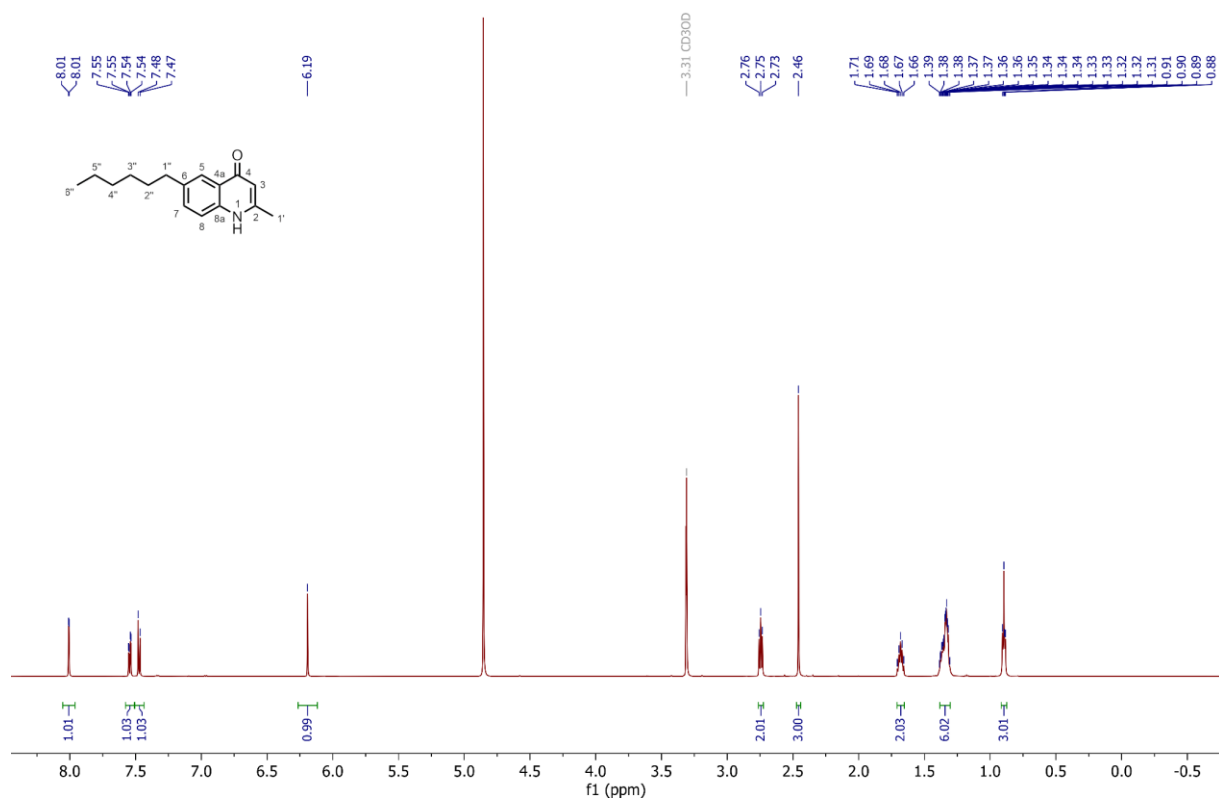


Figure S4. ¹H NMR spectrum (600 MHz, methanol-*d*₄) of 6-hexyl-2-methyl-1H-quinolin-4-one (Yb).

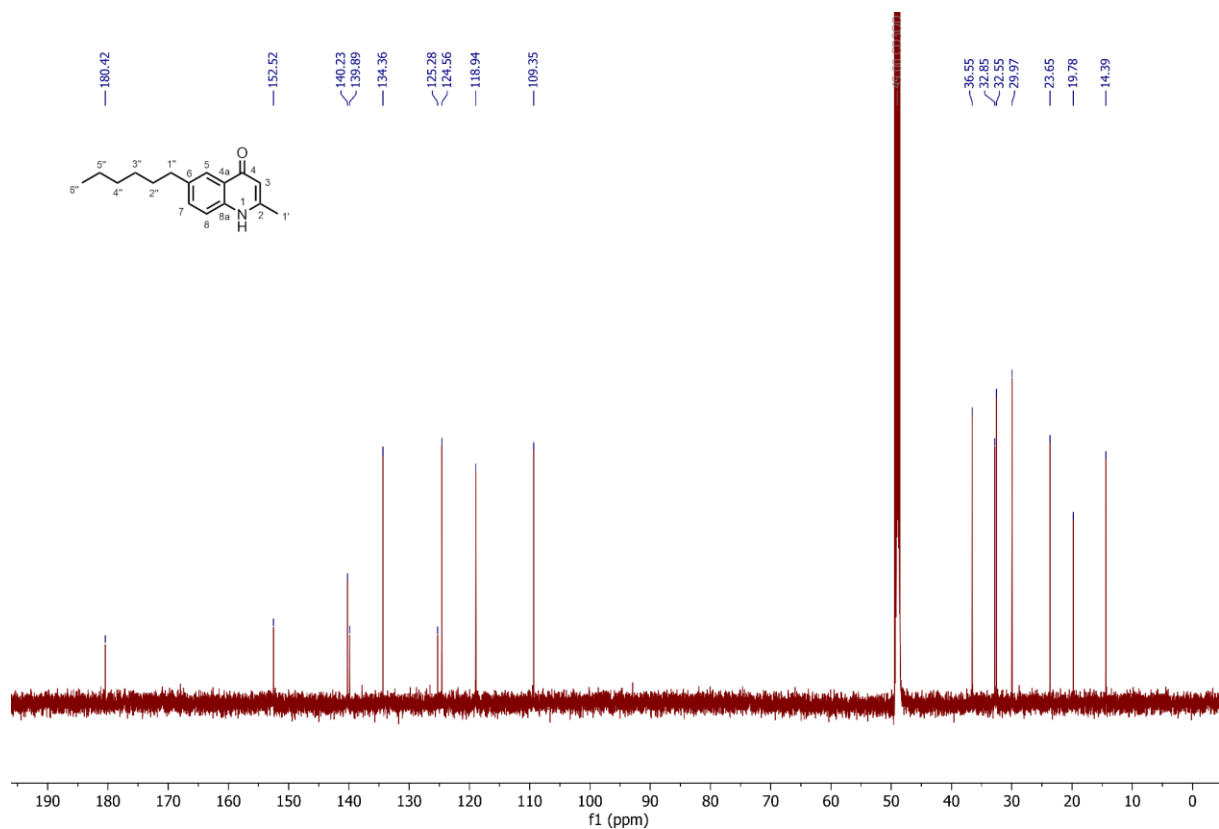


Figure S5. ¹H-decoupled ¹³C NMR spectrum (150 MHz, methanol-*d*₄) of 6-hexyl-2-methyl-1H-quinolin-4-one (Yb).

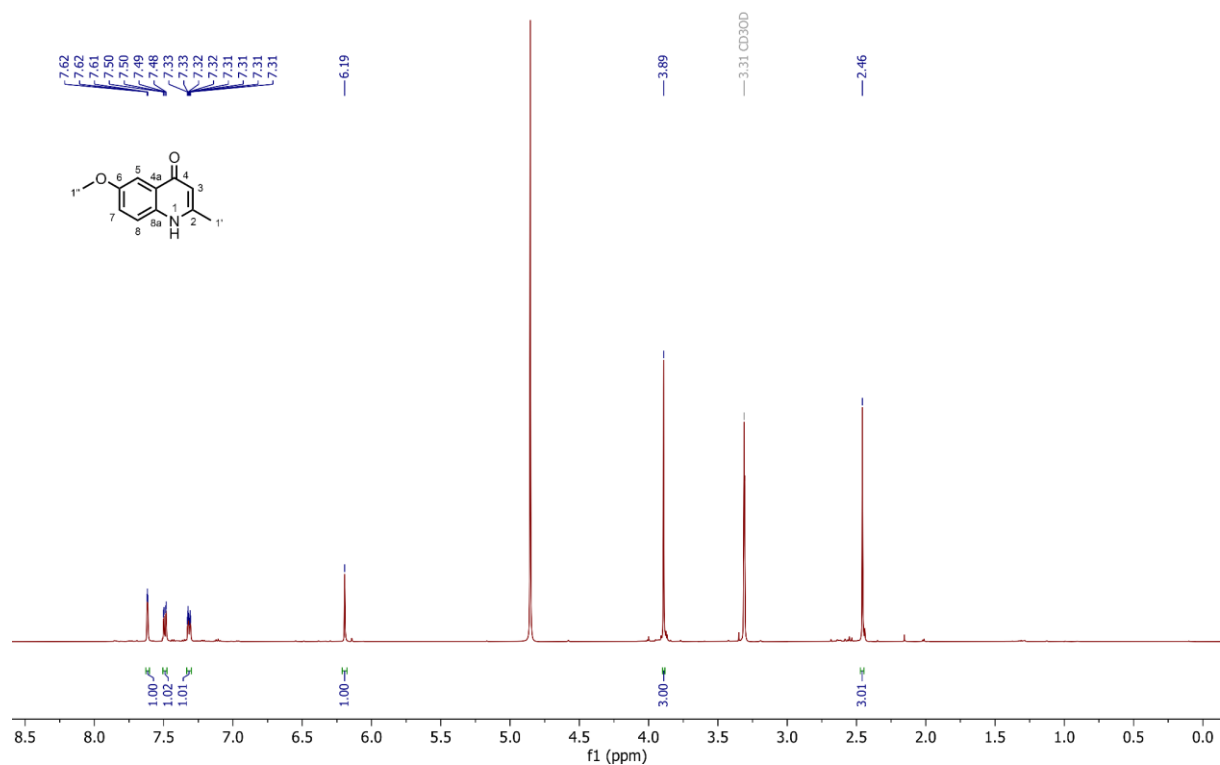


Figure S6. ¹H NMR spectrum (600 MHz, methanol-*d*₄) of 6-methoxy-2-methyl-1*H*-quinolin-4-one (Yc).

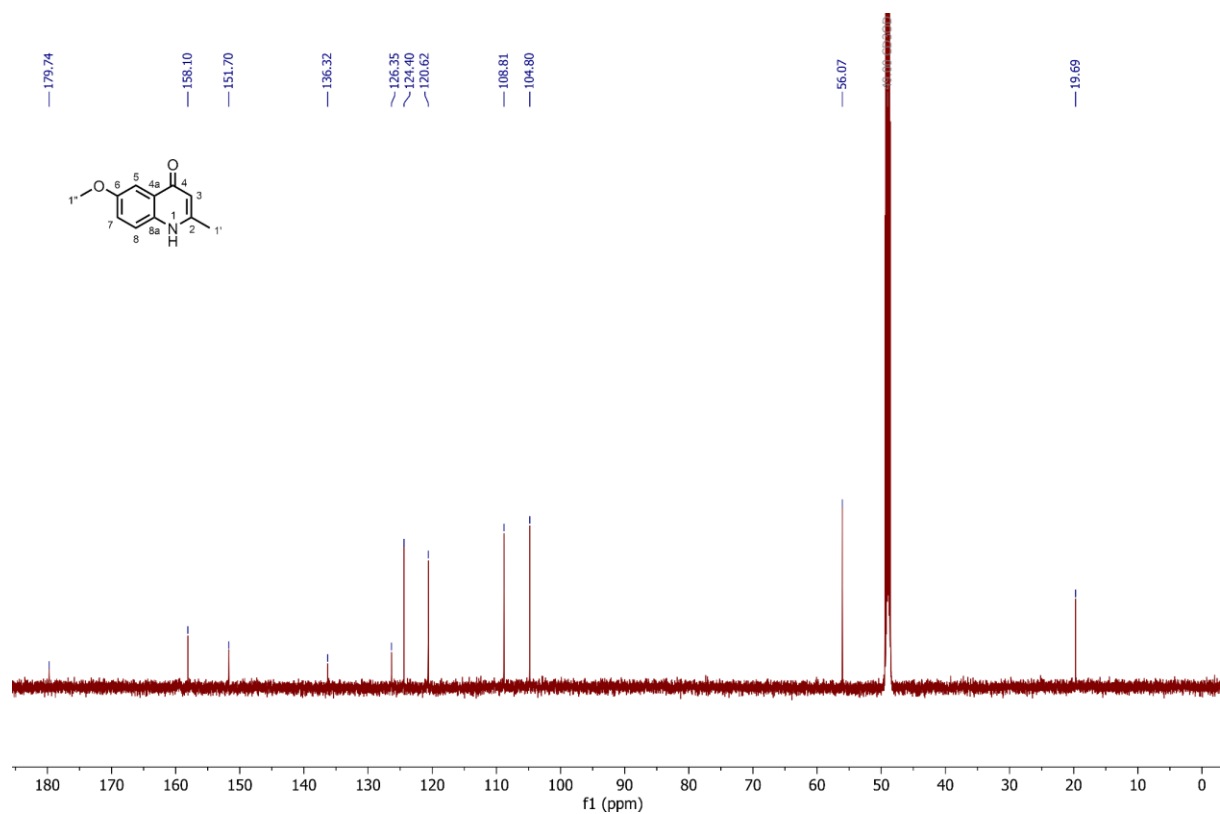


Figure S7. ¹H-decoupled ¹³C NMR spectrum (150 MHz, methanol-*d*₄) of 6-methoxy-2-methyl-1*H*-quinolin-4-one (Yc).

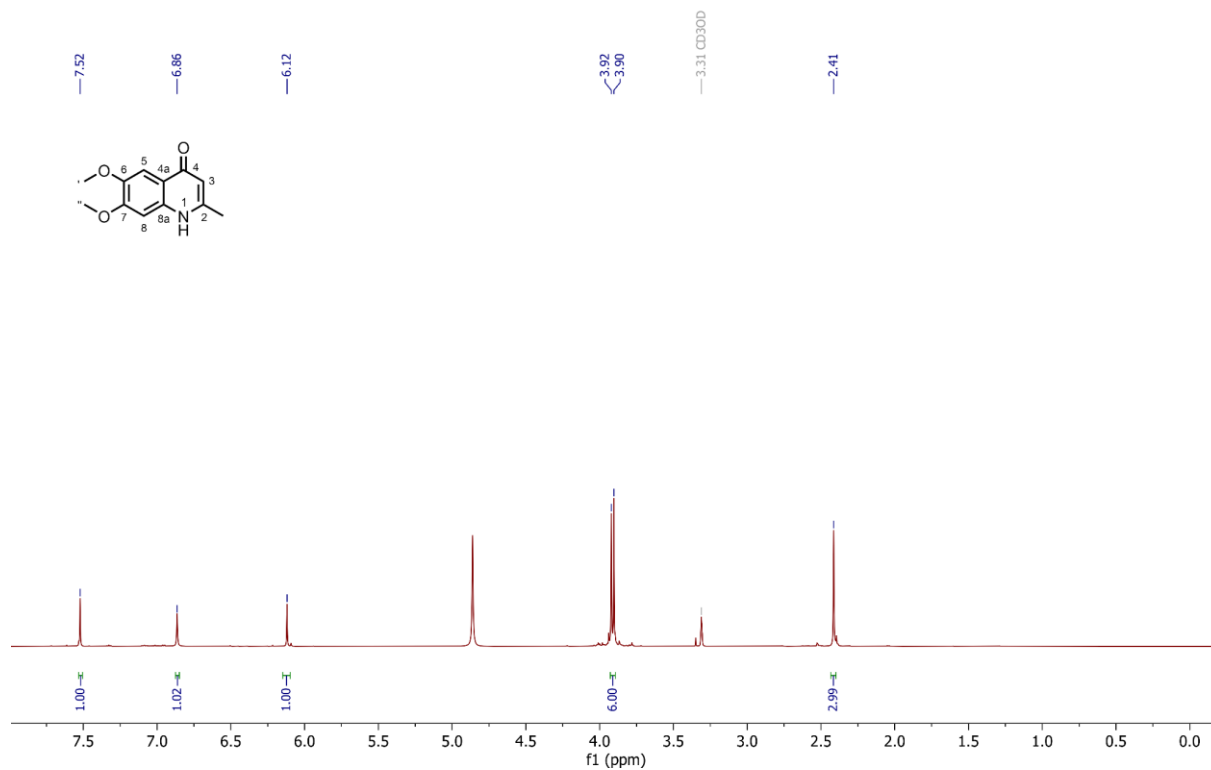


Figure S8. ^1H NMR spectrum (600 MHz, methanol- d_4) of 6,7-dimethoxy-2-methyl-1H-quinolin-4-one (Yd).

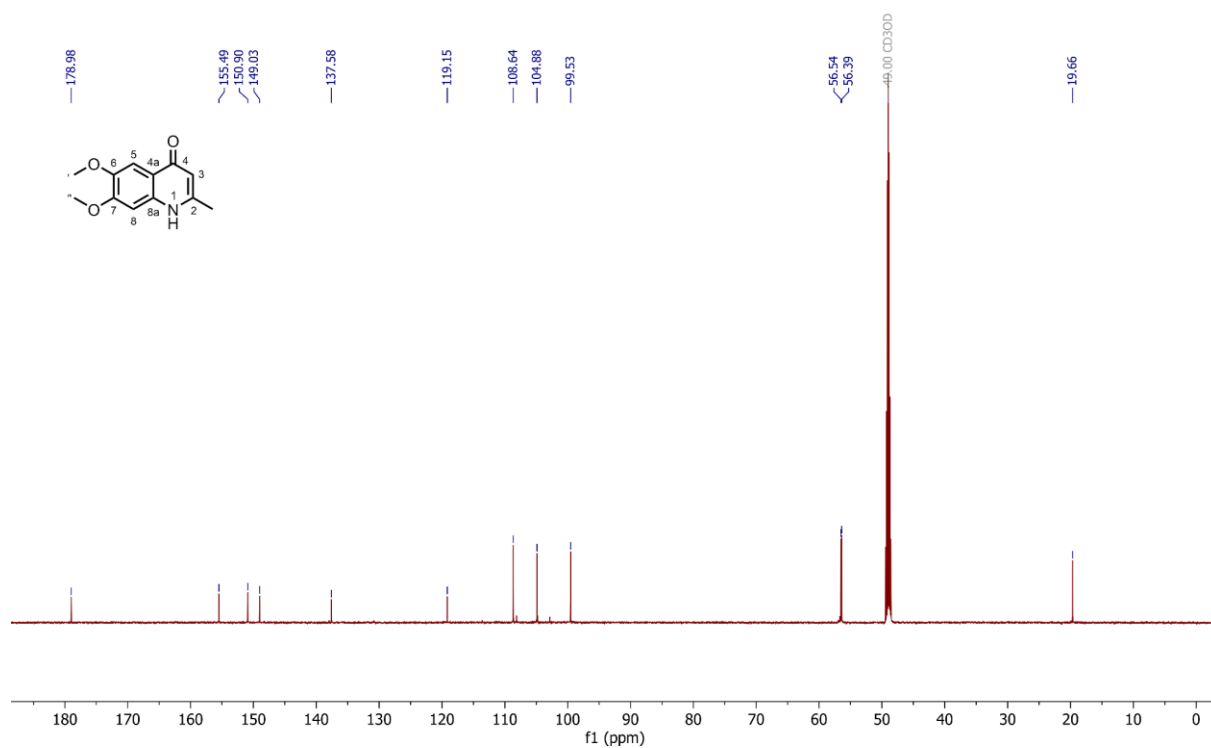


Figure S9. ^1H -decoupled ^{13}C NMR spectrum (150 MHz, methanol- d_4) of 6,7-dimethoxy-2-methyl-1H-quinolin-4-one (Yd).

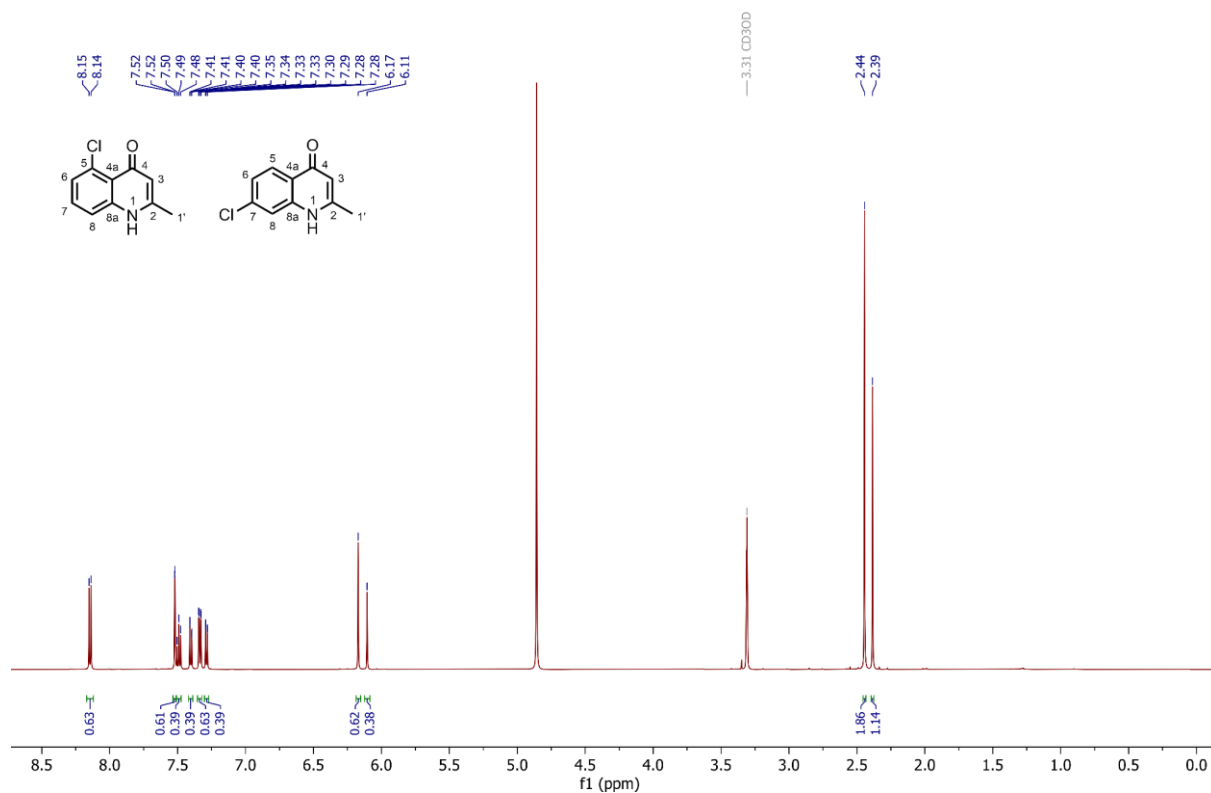


Figure S10. ¹H NMR spectrum (600 MHz, methanol-*d*₄) of a mixture of 7-chloro-2-methyl-1*H*-quinolin-4-one (**Ye**) and 5-chloro-2-methyl-1*H*-quinolin-4-one (**Ye'**).

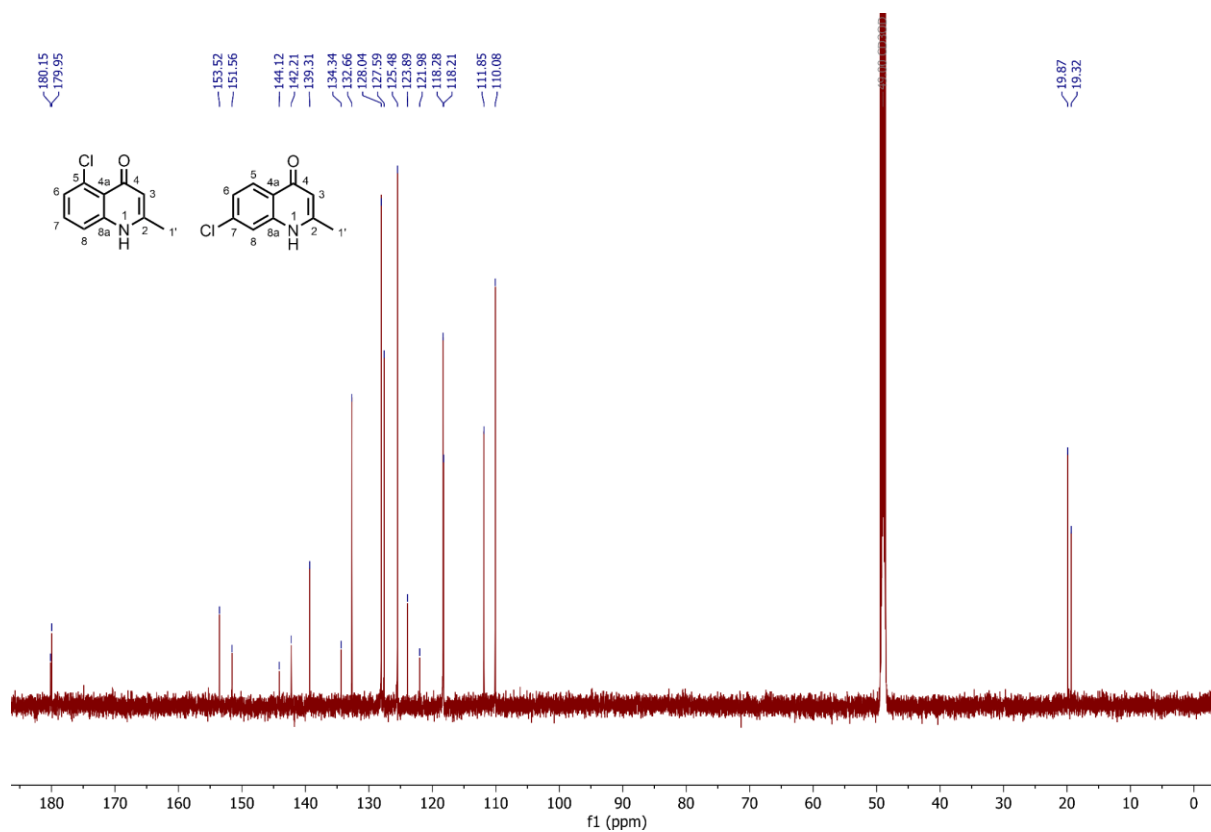


Figure S11. ¹H-decoupled ¹³C NMR spectrum (150 MHz, methanol-*d*₄) of a mixture of 7-chloro-2-methyl-1*H*-quinolin-4-one (**Ye**) and 5-chloro-2-methyl-1*H*-quinolin-4-one (**Ye'**).

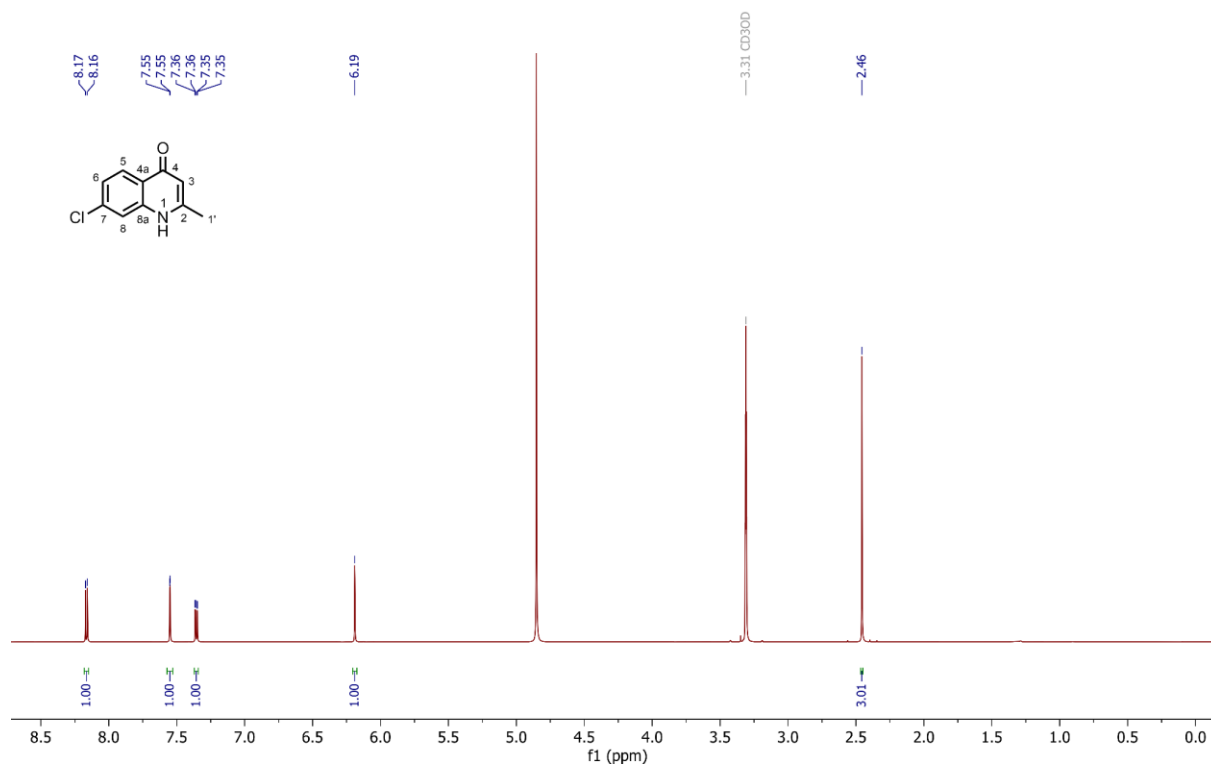


Figure S12. ^1H NMR spectrum (600 MHz, methanol- d_4) of 7-chloro-2-methyl-1H-quinolin-4-one (Ye).

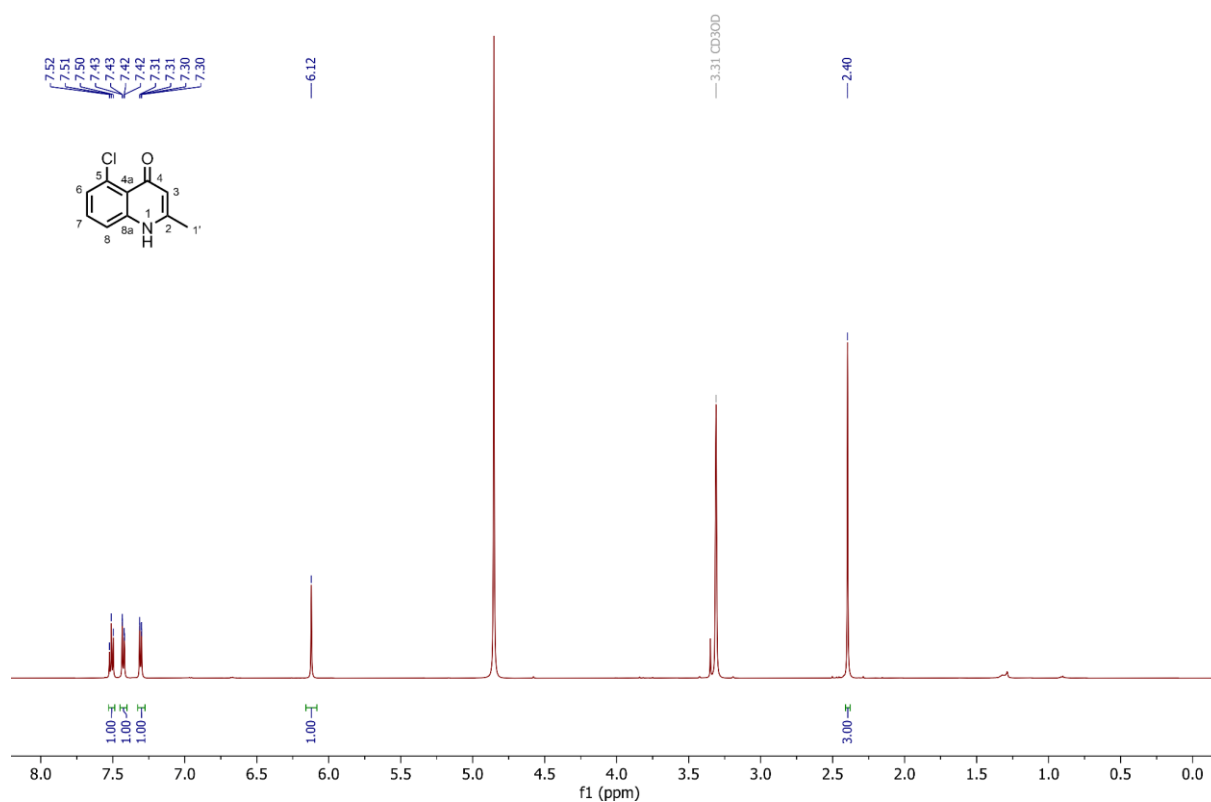


Figure S13. ^1H NMR spectrum (600 MHz, methanol- d_4) of Ye'.

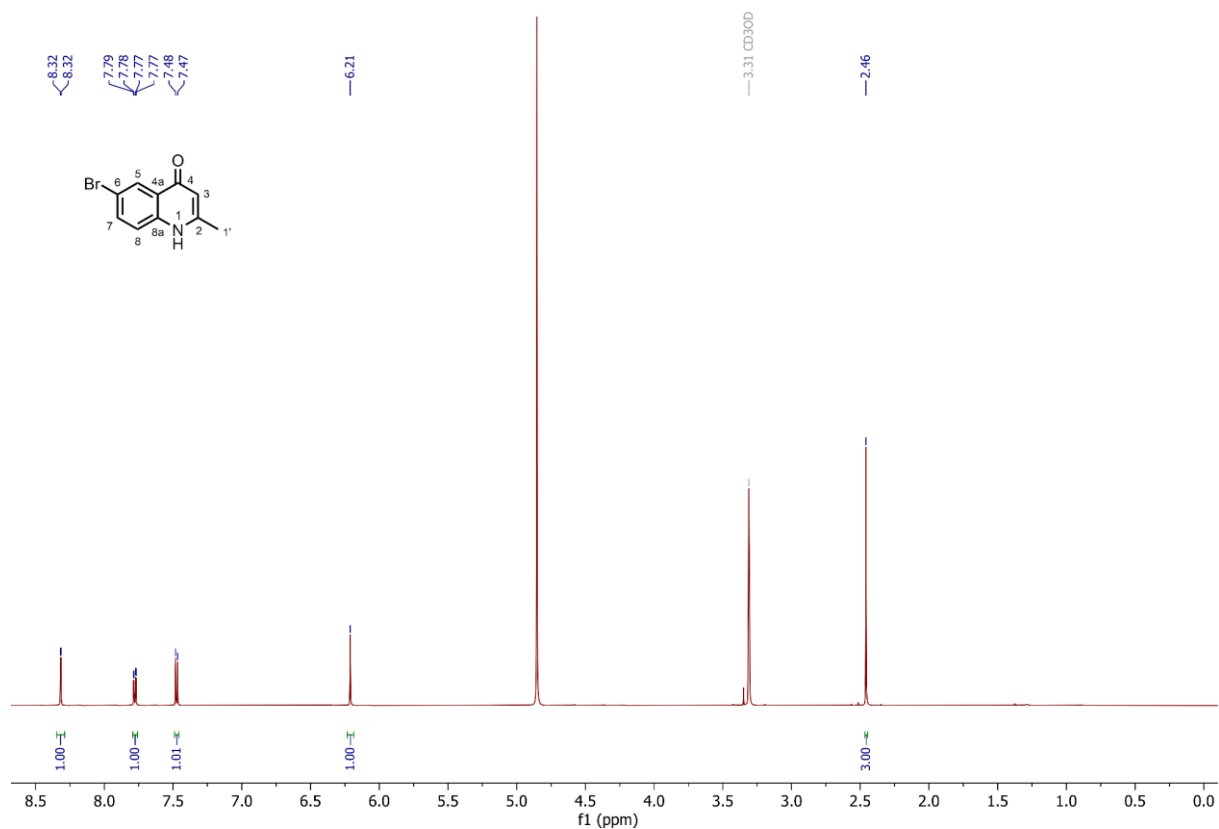


Figure S14. ¹H NMR spectrum (600 MHz, methanol-*d*₄) of 6-bromo-2-methyl-1*H*-quinolin-4-one (Yg).

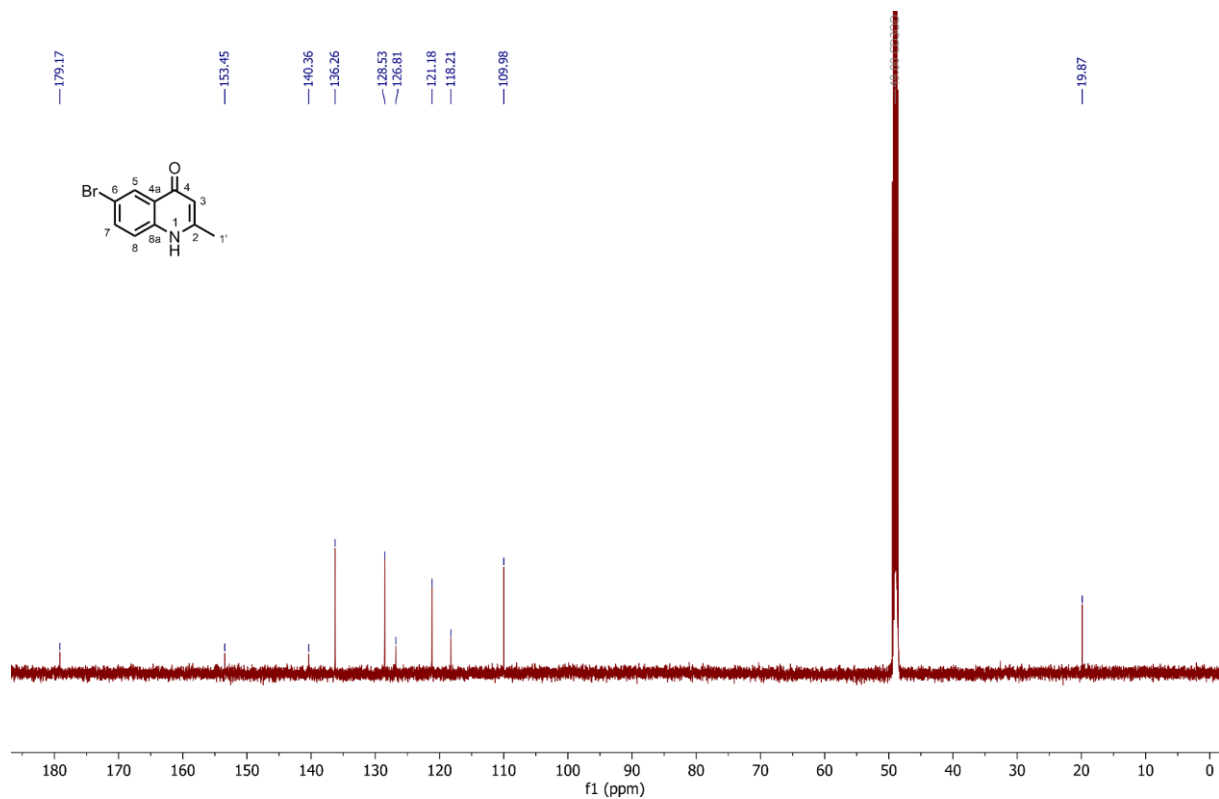


Figure S15. ¹H-decoupled ¹³C NMR spectrum (150 MHz, methanol-*d*₄) of 6-bromo-2-methyl-1*H*-quinolin-4-one (Yg).

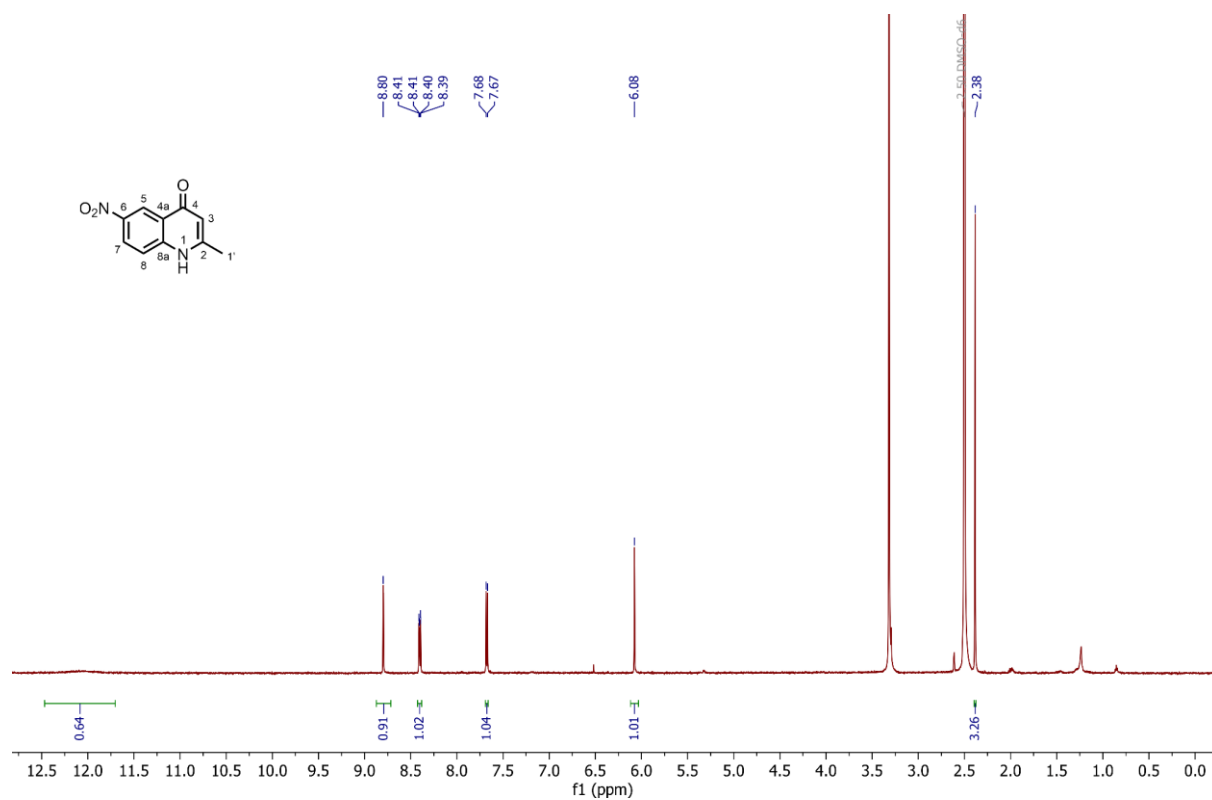


Figure S16. ¹H NMR spectrum (600 MHz, DMSO-*d*₆) of 2-methyl-6-nitro-1H-quinolin-4-one (Yh).

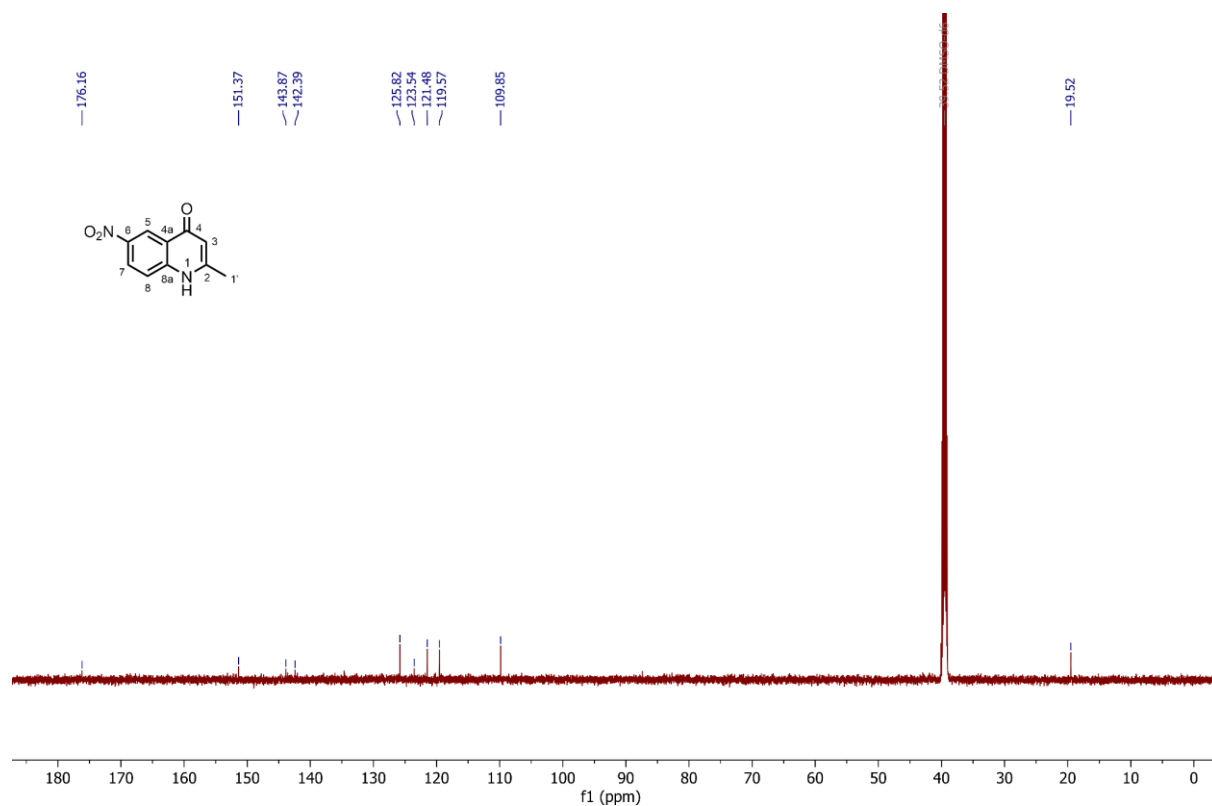


Figure S17. ¹H-decoupled ¹³C NMR spectrum (150 MHz, DMSO-*d*₆) of 2-methyl-6-nitro-1H-quinolin-4-one (Yh).

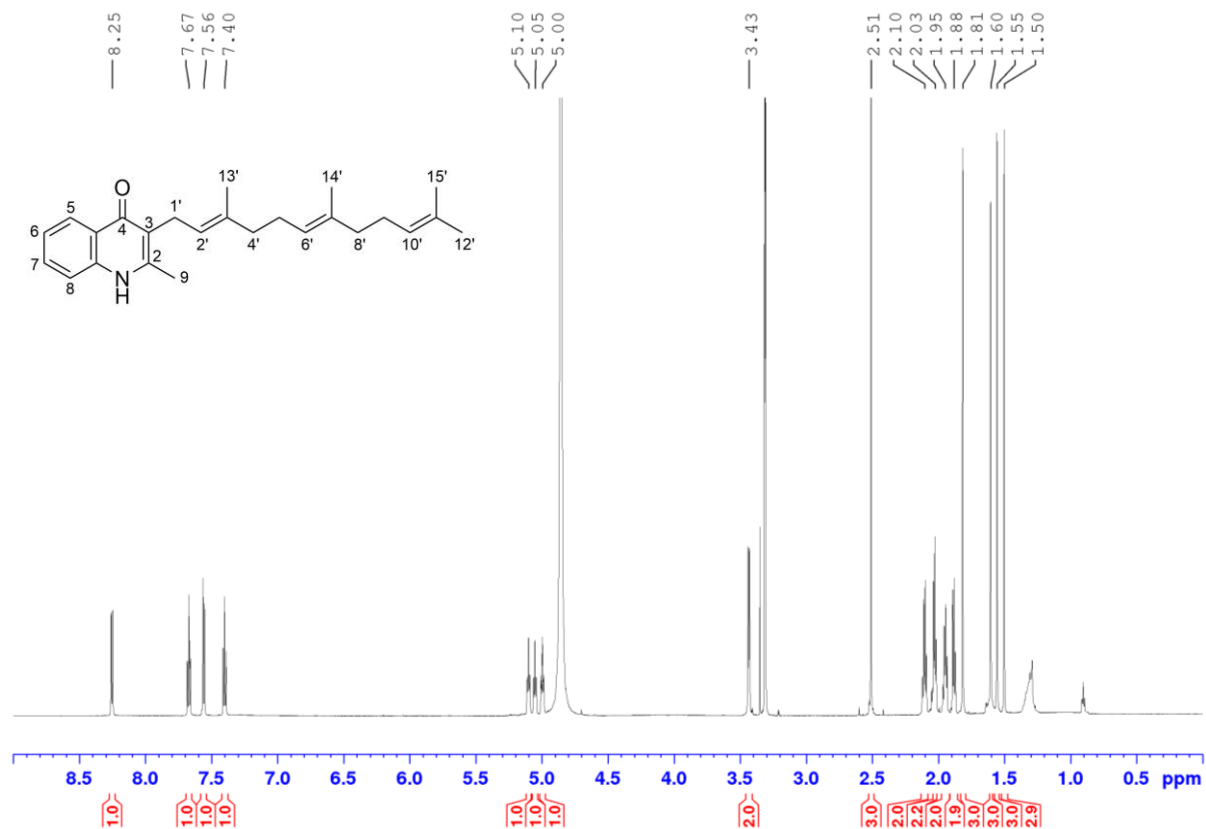


Figure S18. ^1H NMR spectrum (700 MHz, methanol- d_4) of 1.

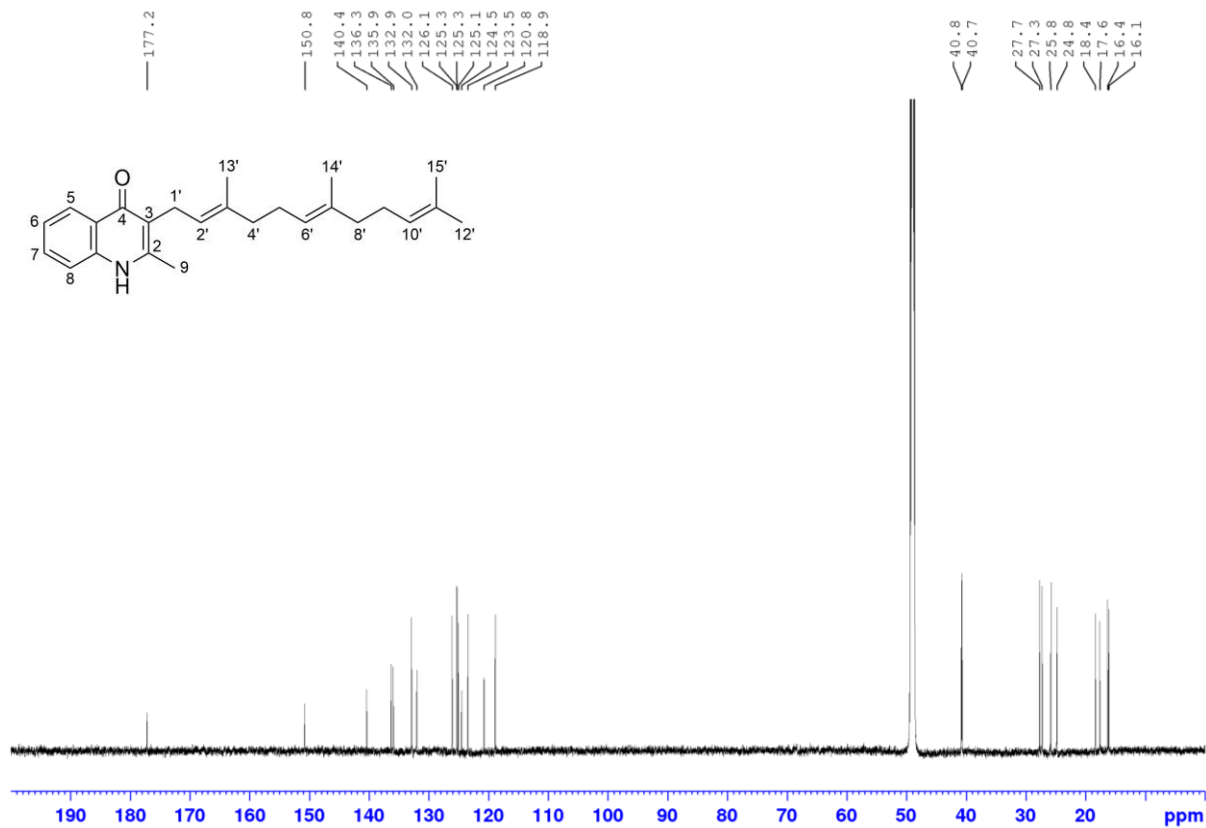


Figure S19. ^1H -decoupled ^{13}C NMR spectrum (175 MHz, methanol- d_4) of 1.

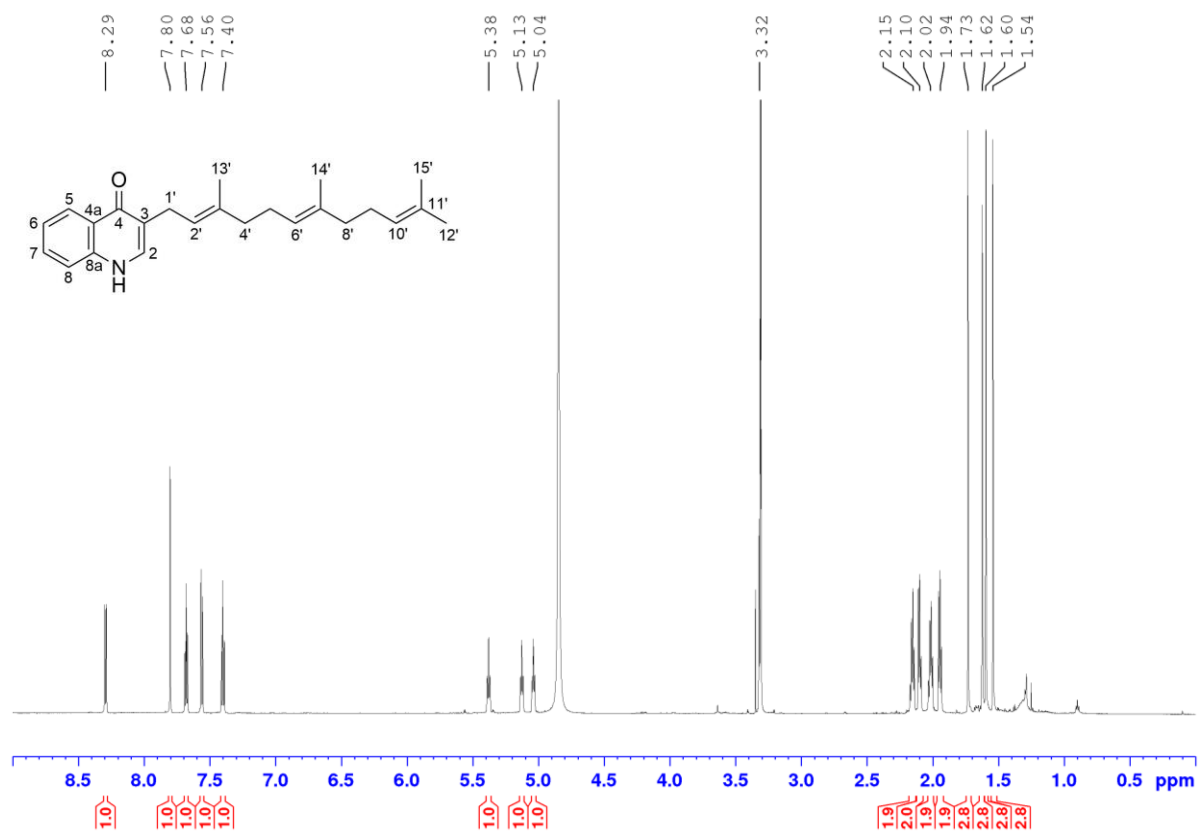


Figure S20. ^1H NMR spectrum (700 MHz, $\text{methanol-}d_4$) of **2**.

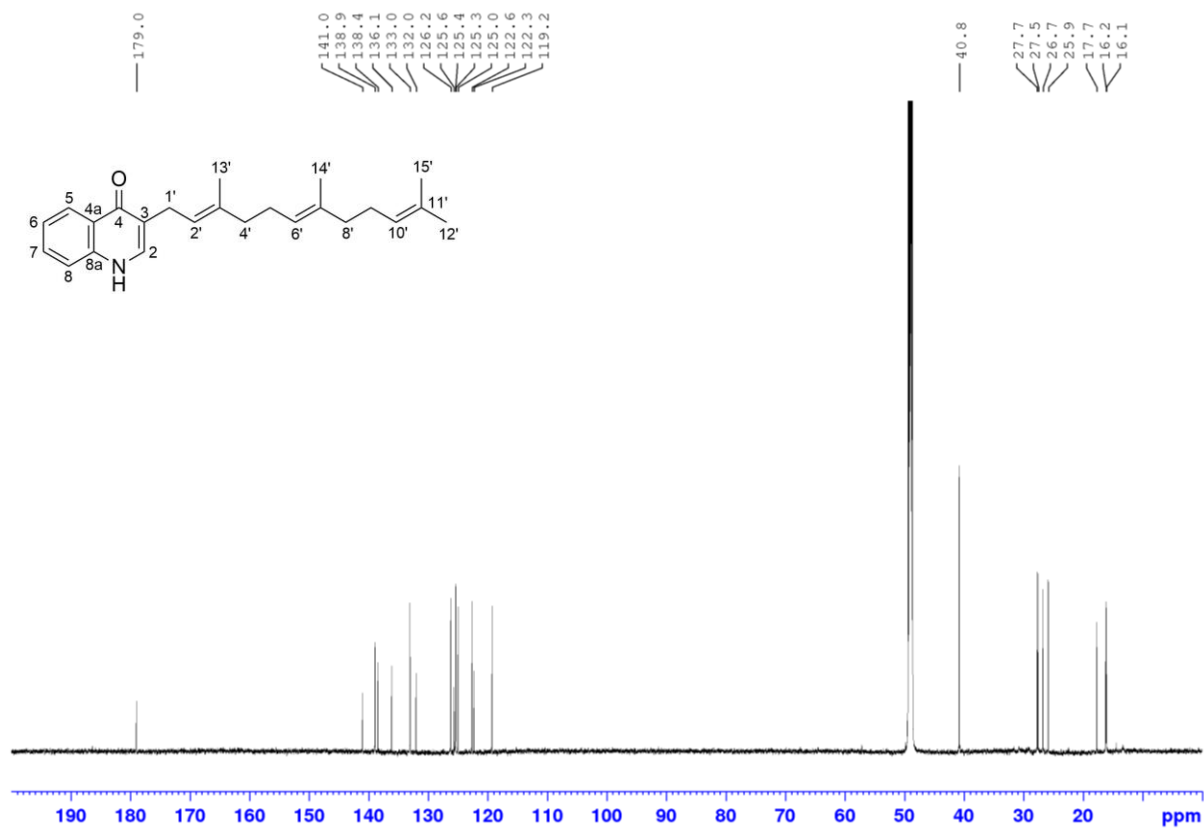


Figure S21. ^1H -decoupled ^{13}C NMR spectrum (175 MHz, $\text{methanol-}d_4$) of **2**.

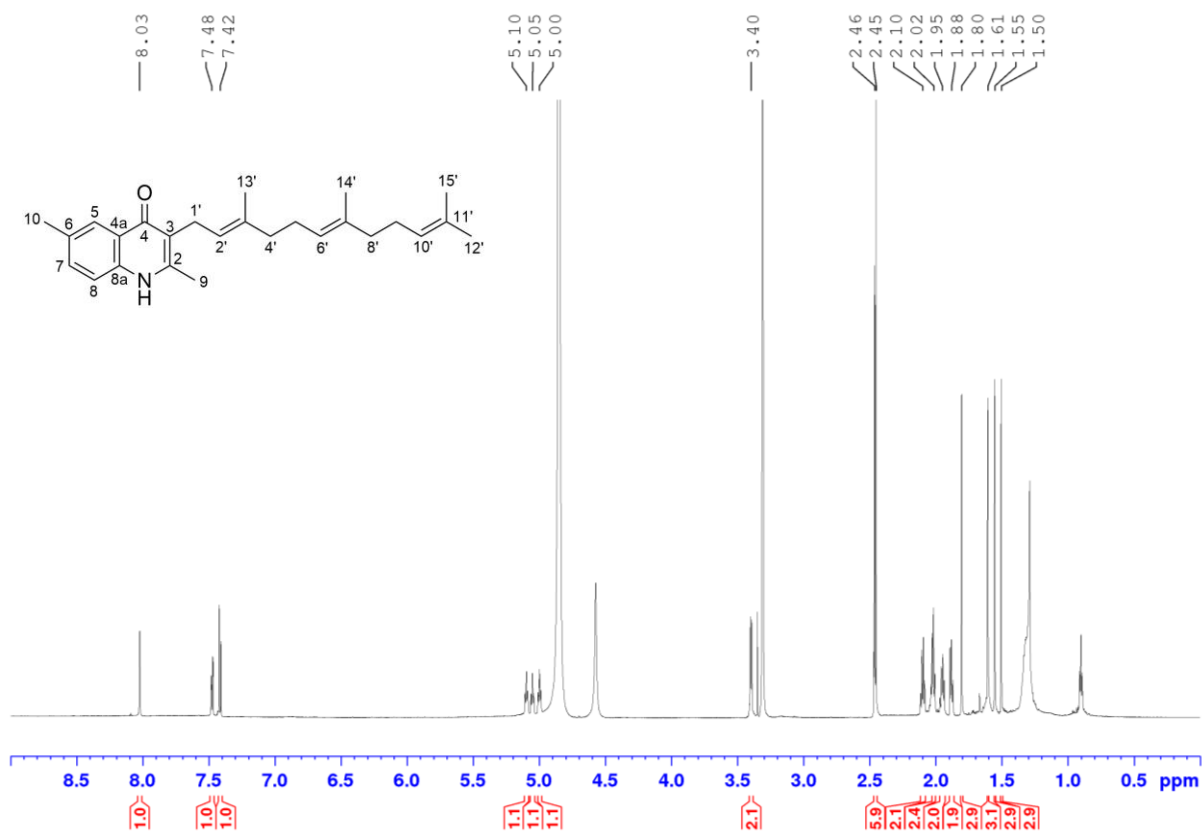


Figure S22. ¹H NMR spectrum (700 MHz, methanol-*d*₄) of 3.

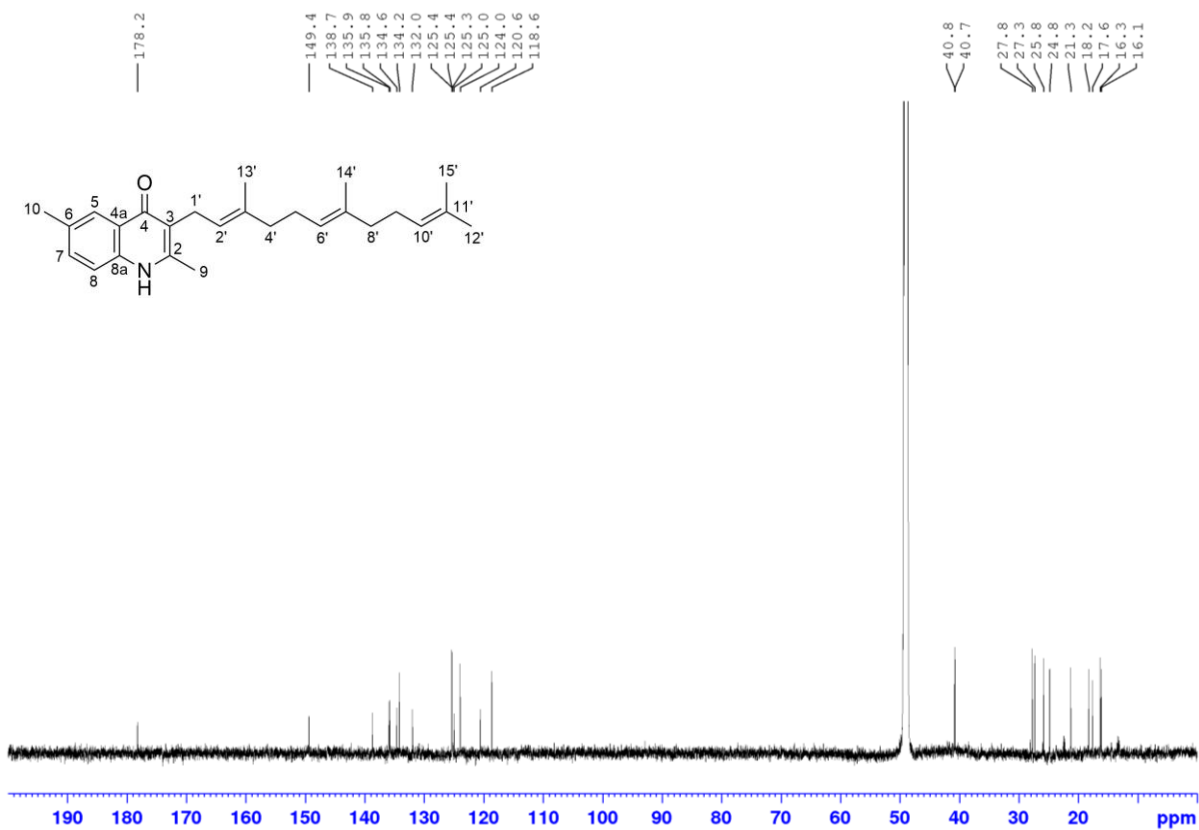


Figure S23. ¹H-decoupled ¹³C NMR spectrum (175 MHz, methanol-*d*₄) of 3.

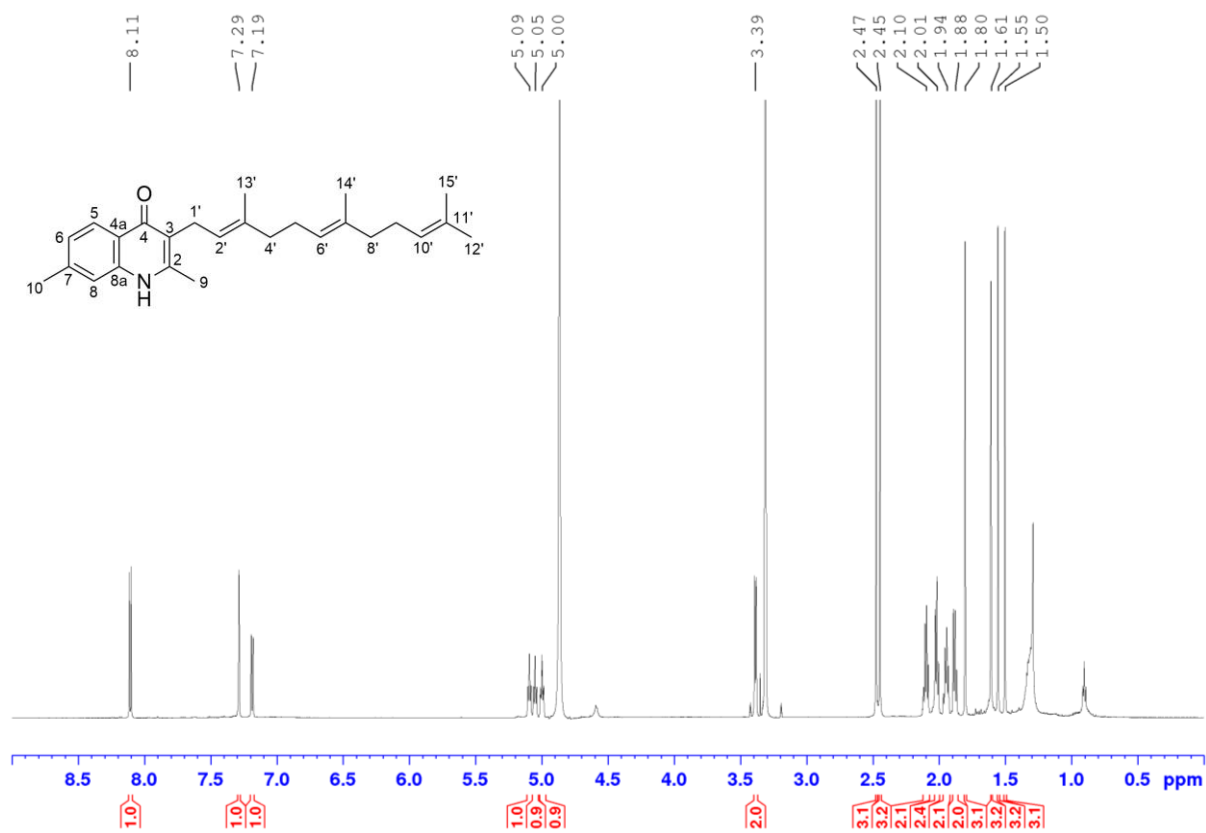


Figure S24. ^1H NMR spectrum (600 MHz, methanol- d_4) of **4**.

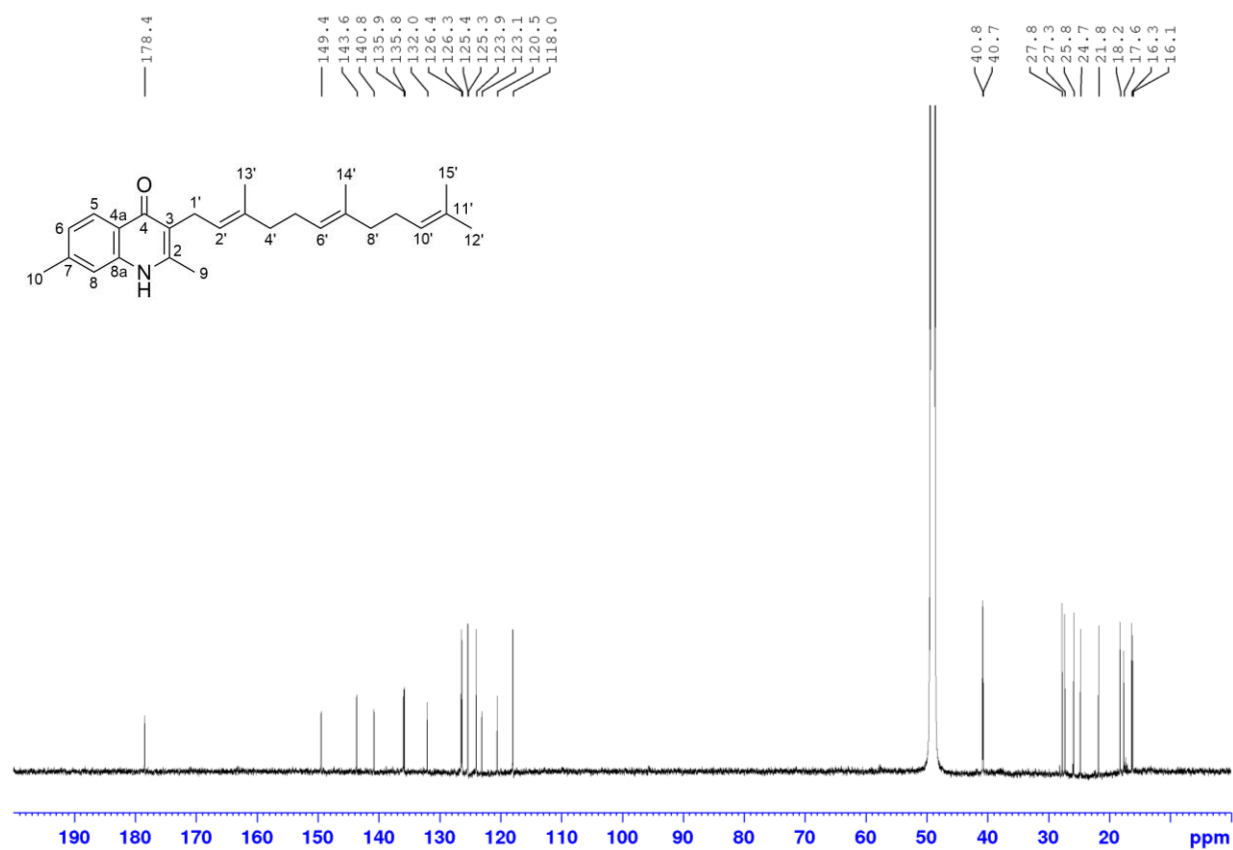


Figure S25. ^1H -decoupled ^{13}C NMR spectrum (150 MHz, methanol- d_4) of **4**.

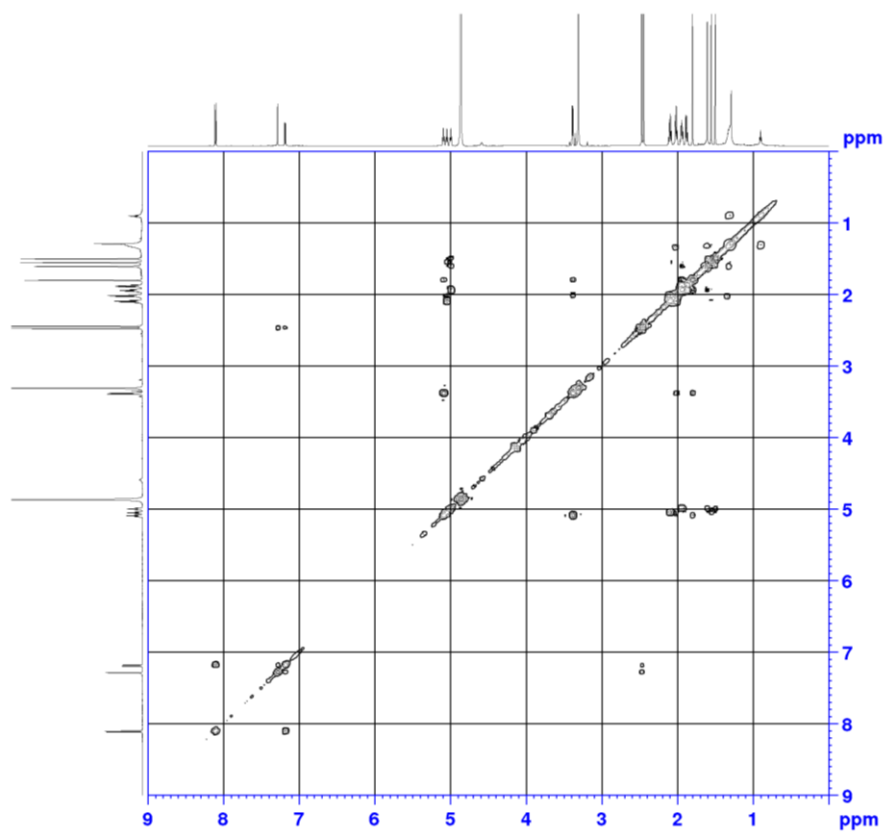


Figure S26. COSY spectrum (methanol- d_4) of **4**.

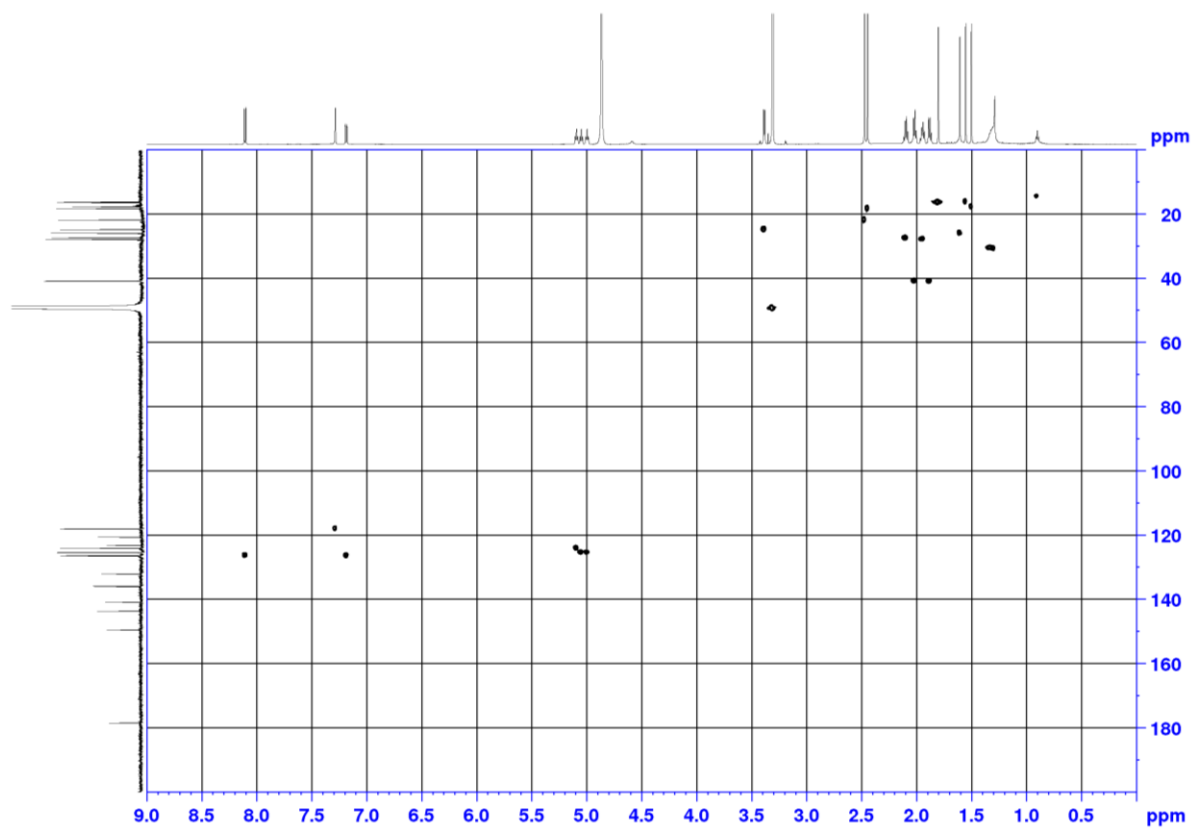


Figure S27. HSQC spectrum (methanol- d_4) of **4**.

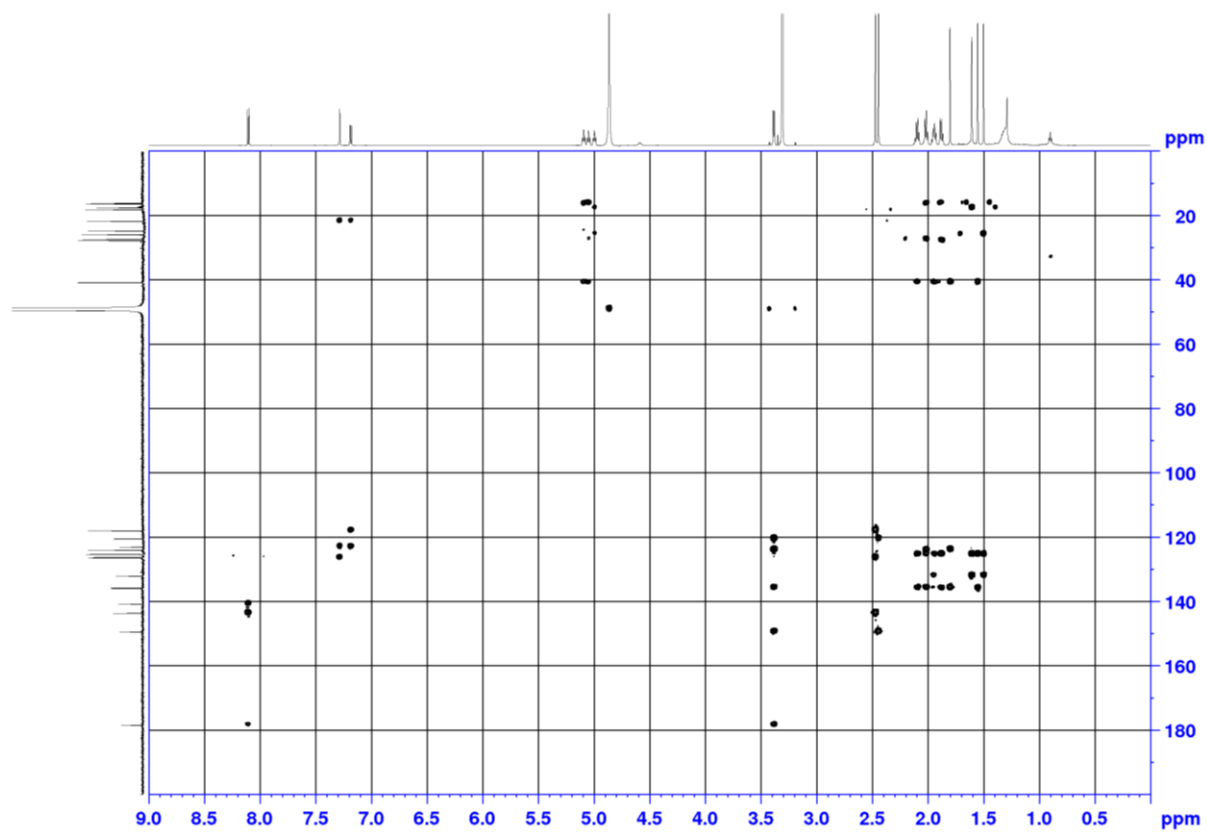


Figure S28. HMBC spectrum (methanol- d_4) of **4**.

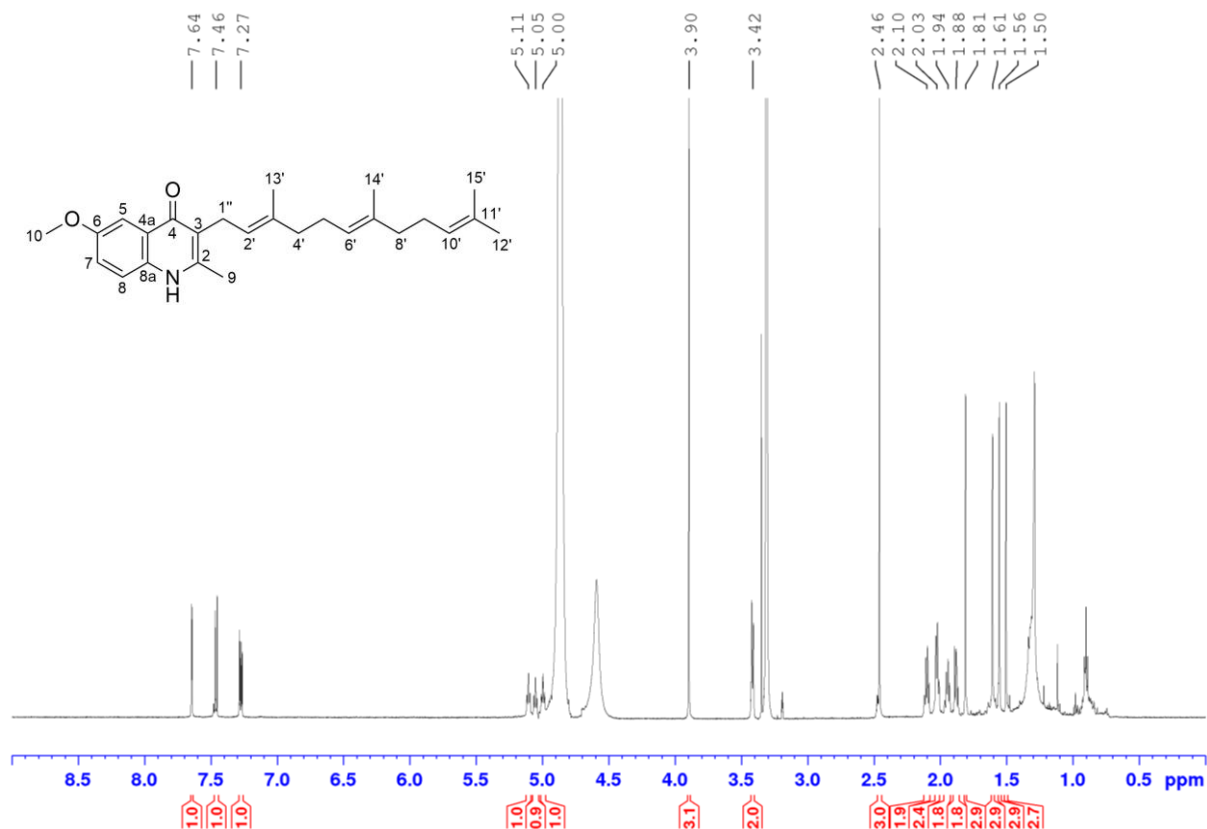


Figure S29. ¹H NMR spectrum (600 MHz, methanol-*d*₄) of 5.

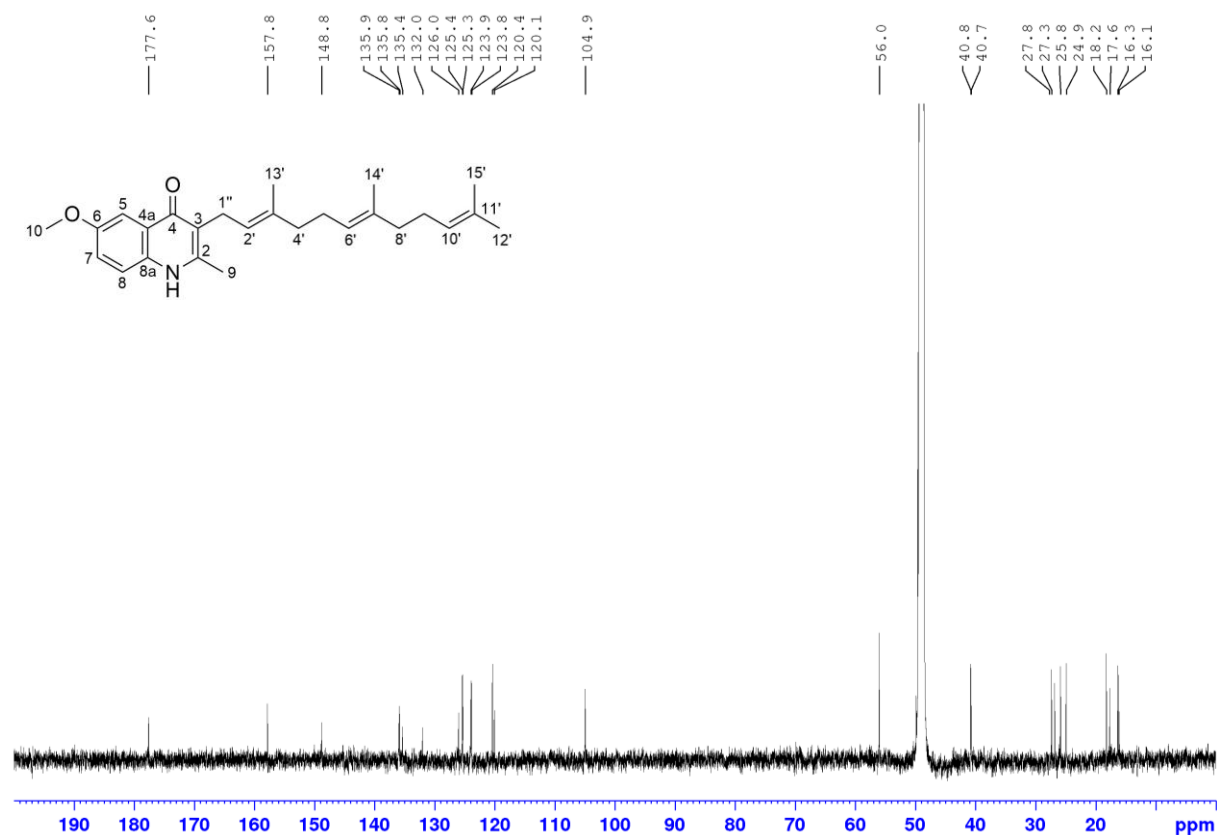


Figure S30. ¹H-decoupled ¹³C NMR spectrum (150 MHz, methanol-*d*₄) of 5.

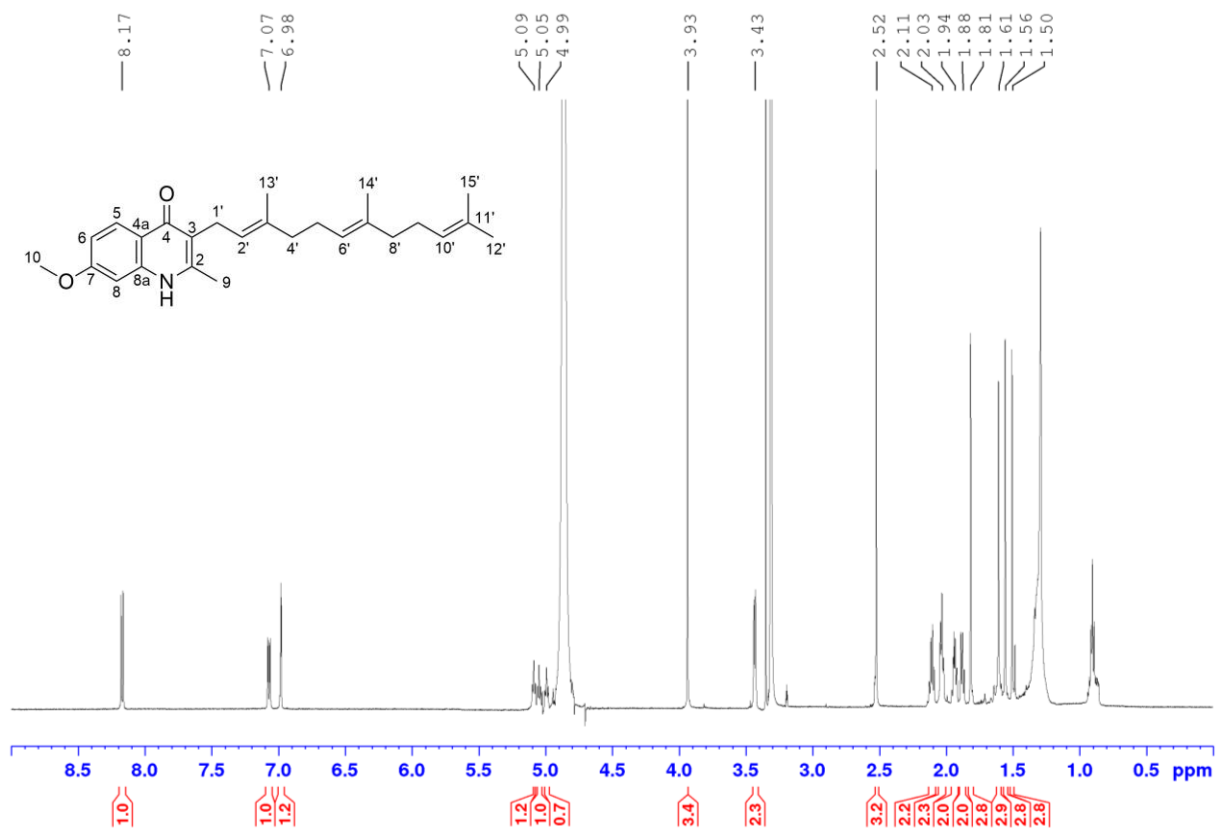


Figure S31. ^1H NMR spectrum (600 MHz, methanol- d_4) of 6.

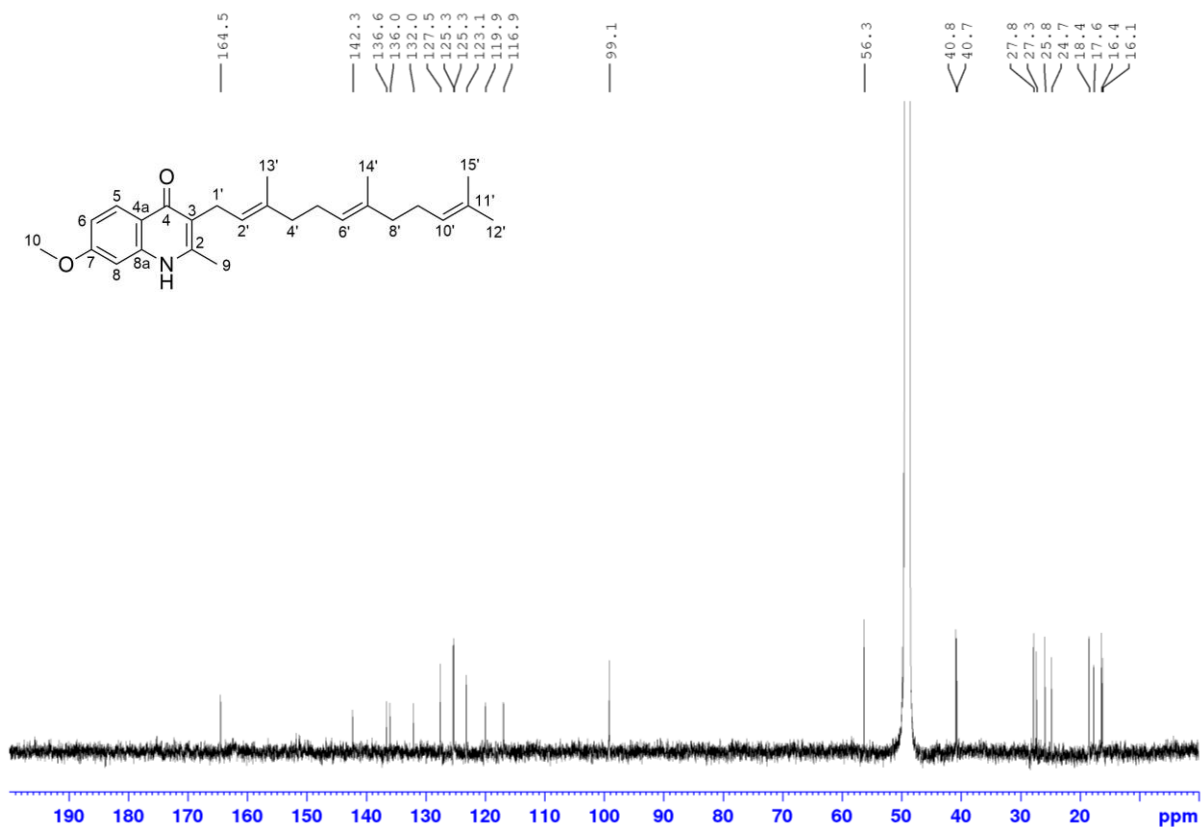


Figure S32. ^1H -decoupled ^{13}C NMR spectrum (150 MHz, methanol- d_4) of 6.

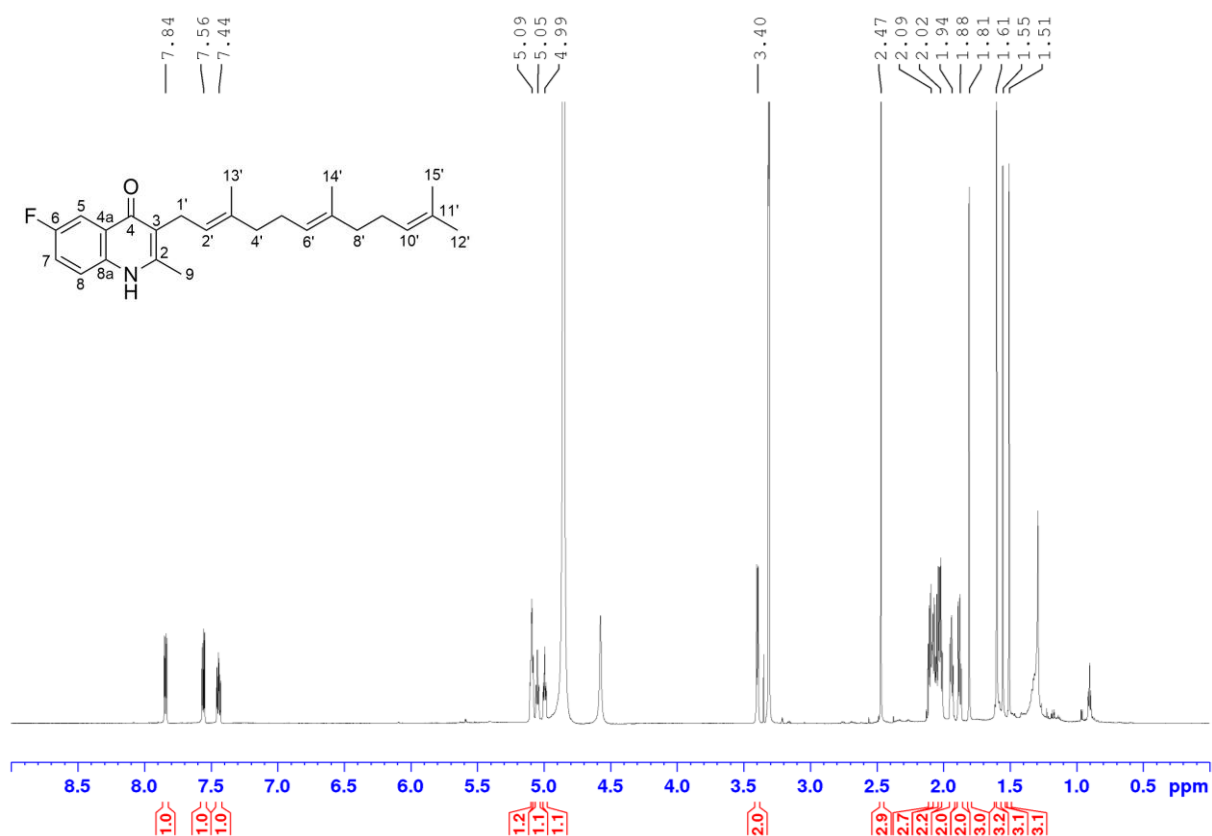


Figure S33. ¹H NMR spectrum (700 MHz, methanol-*d*₄) of 7.

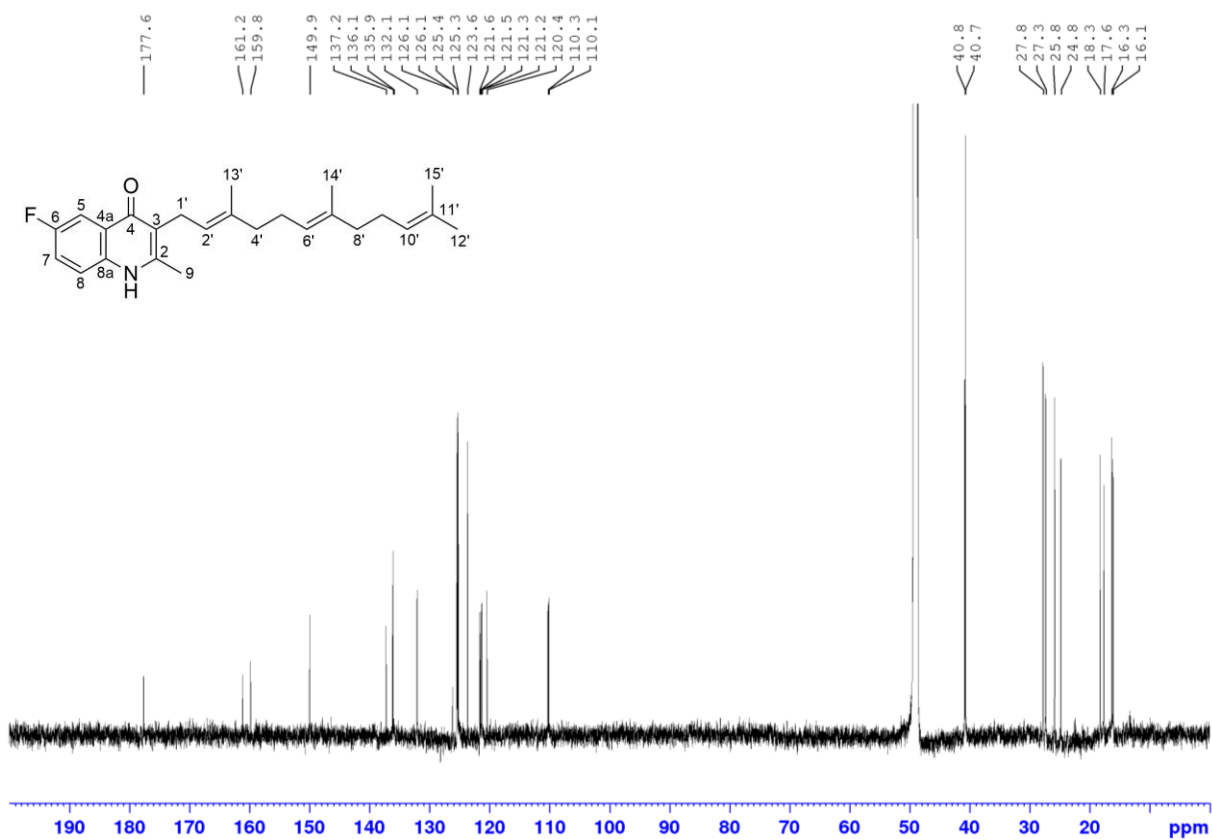


Figure S34. ¹H-decoupled ¹³C NMR spectrum (175 MHz, methanol-*d*₄) of 7.

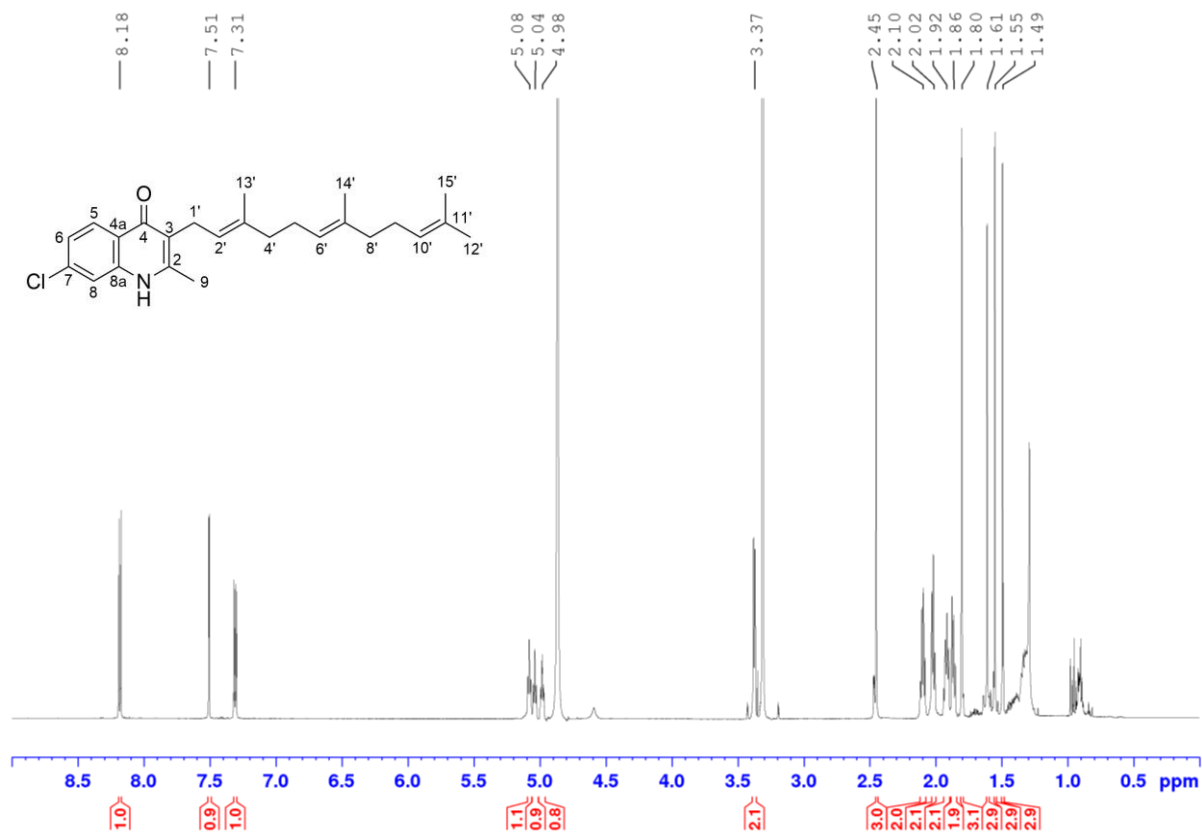


Figure S37. ^1H NMR spectrum (600 MHz, methanol- d_4) of 9.

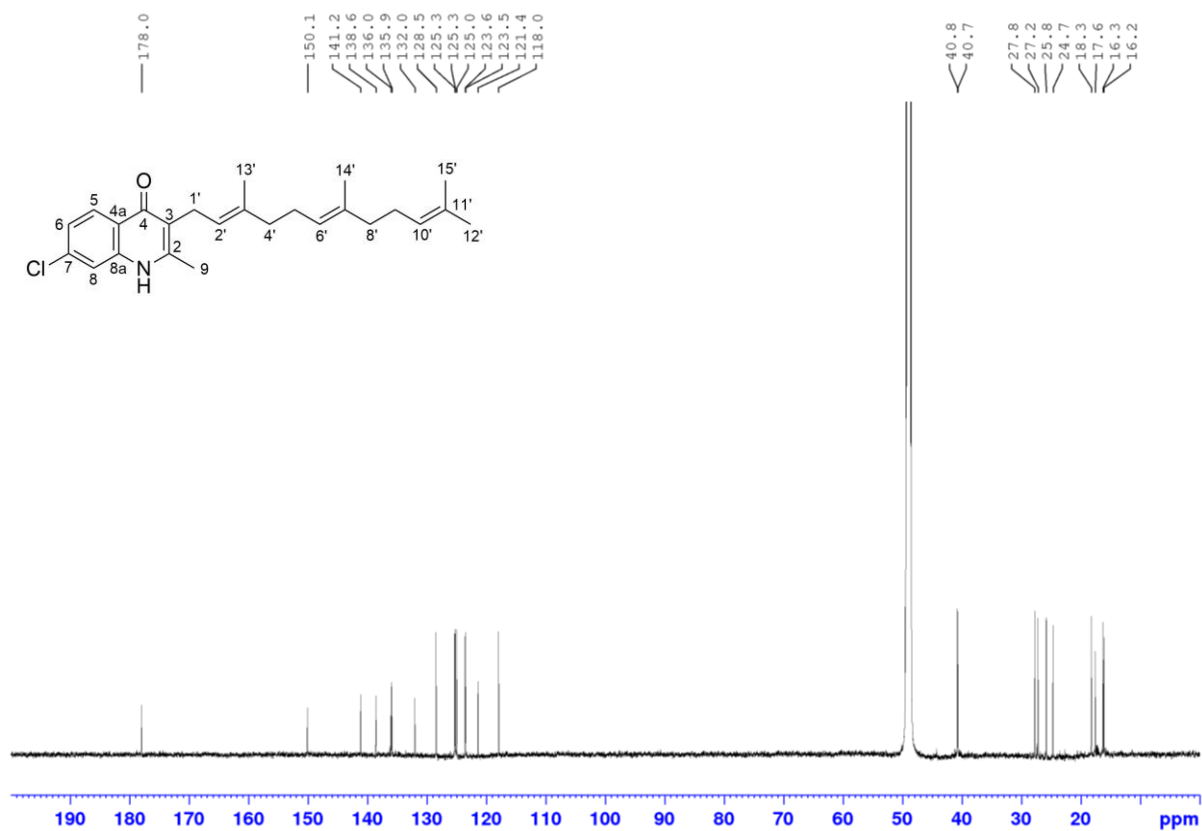


Figure S38. ^1H -decoupled ^{13}C NMR spectrum (150 MHz, methanol- d_4) of 9.

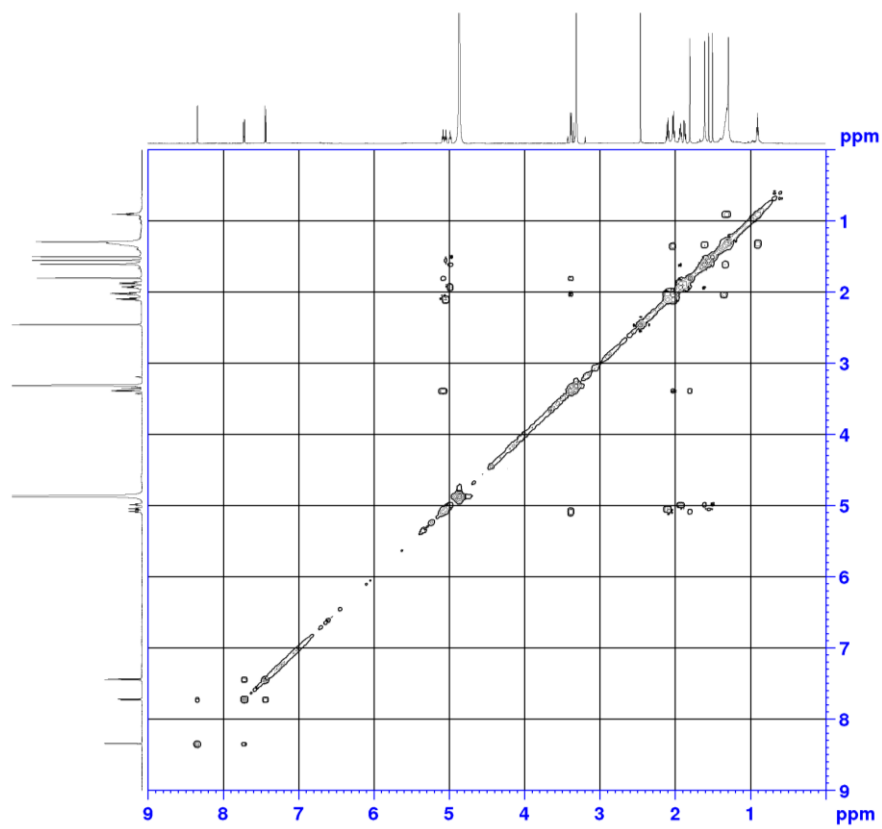


Figure S41. COSY spectrum (methanol- d_4) of 10.

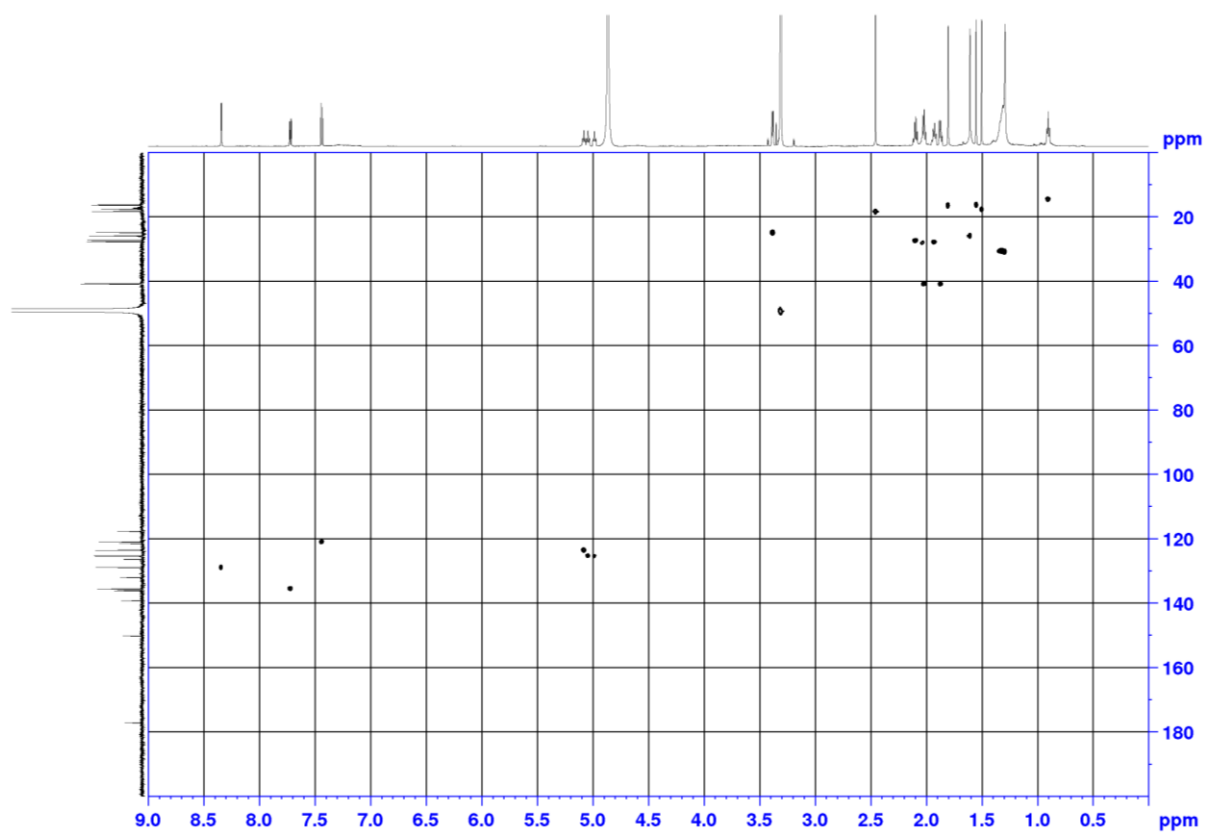


Figure S42. HSQC spectrum (methanol- d_4) of 10.

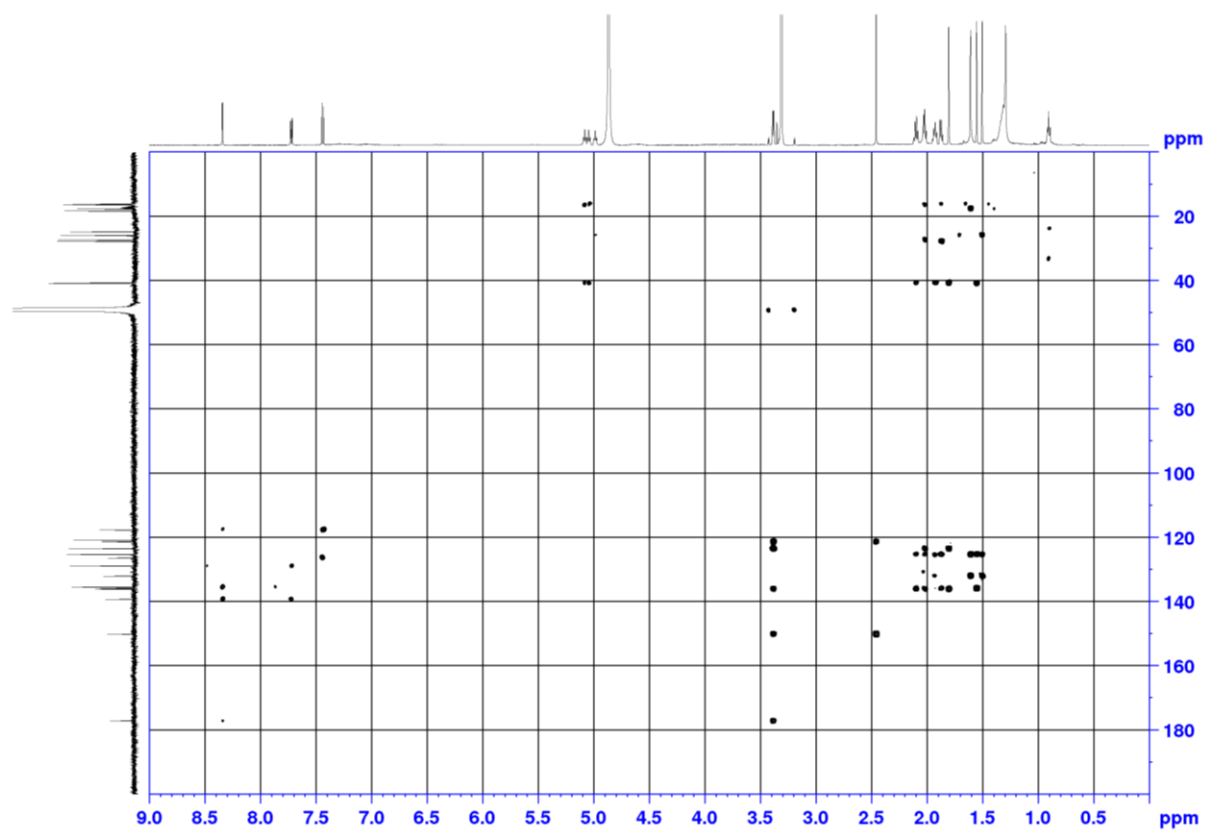


Figure S43. HMBC spectrum (methanol- d_4) of **10**.