

Supporting information

Spectra of Compounds

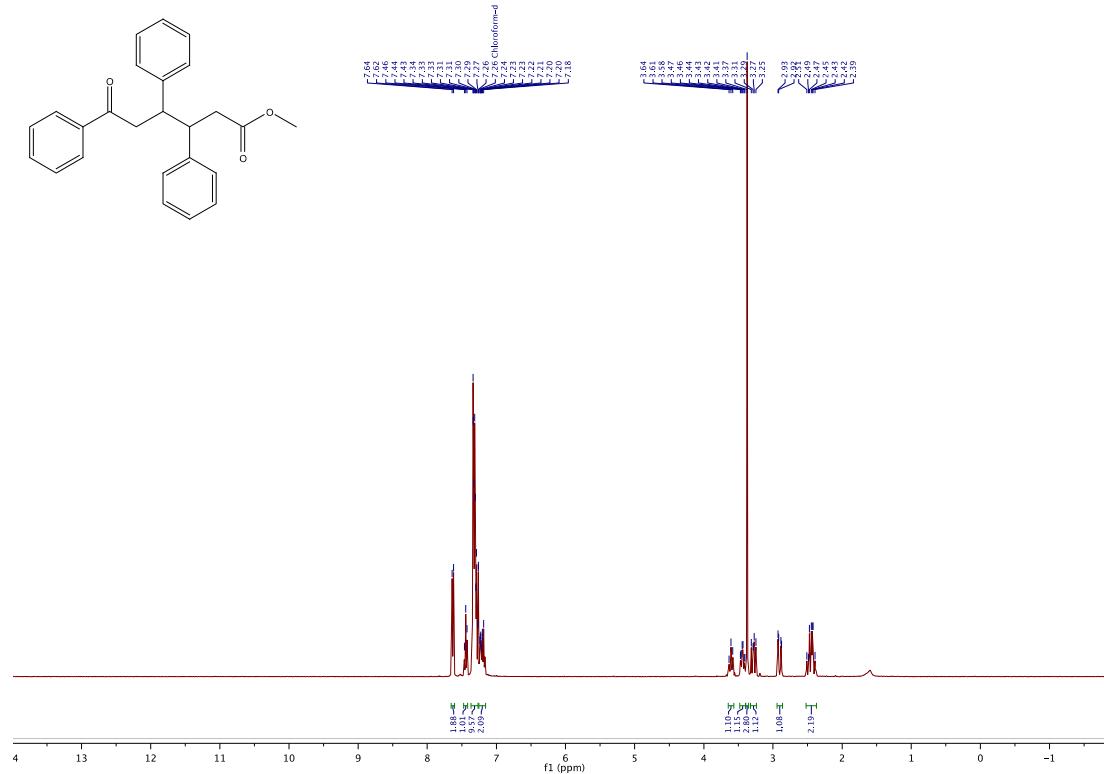


Figure S1. ^1H NMR of Methyl-6-oxo-3,4,6-triphenylhexanoate (CDCl_3).

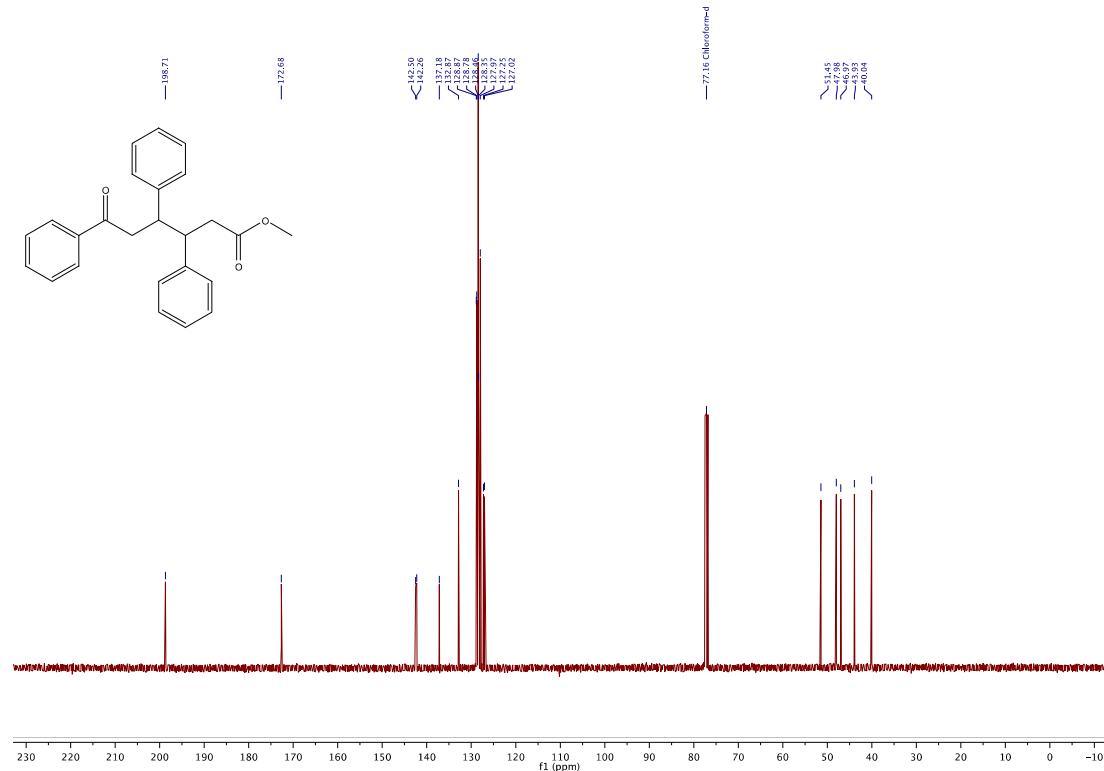


Figure S2. ^{13}C NMR of Methyl-6-oxo-3,4,6-triphenylhexanoate (CDCl_3).

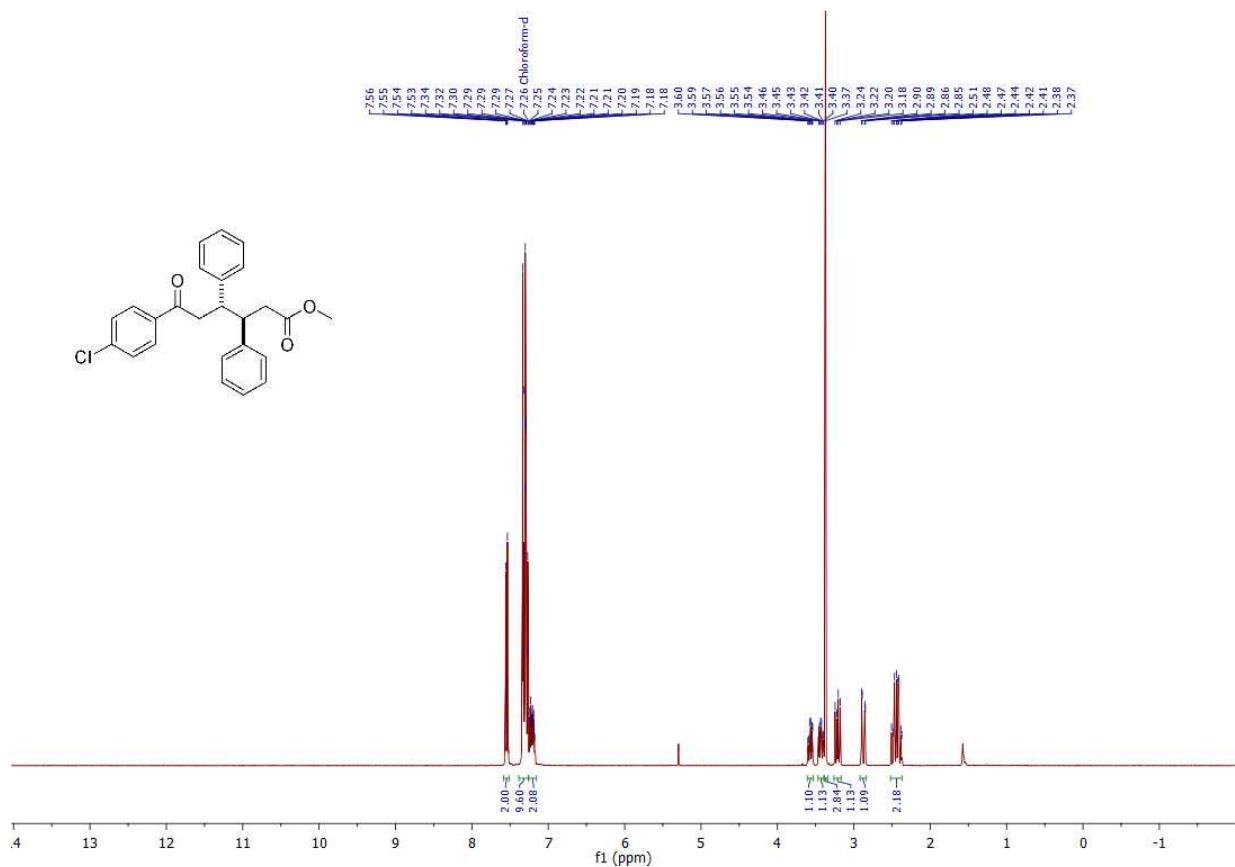


Figure S3. ^1H NMR of Methyl 6-(4-chlorophenyl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

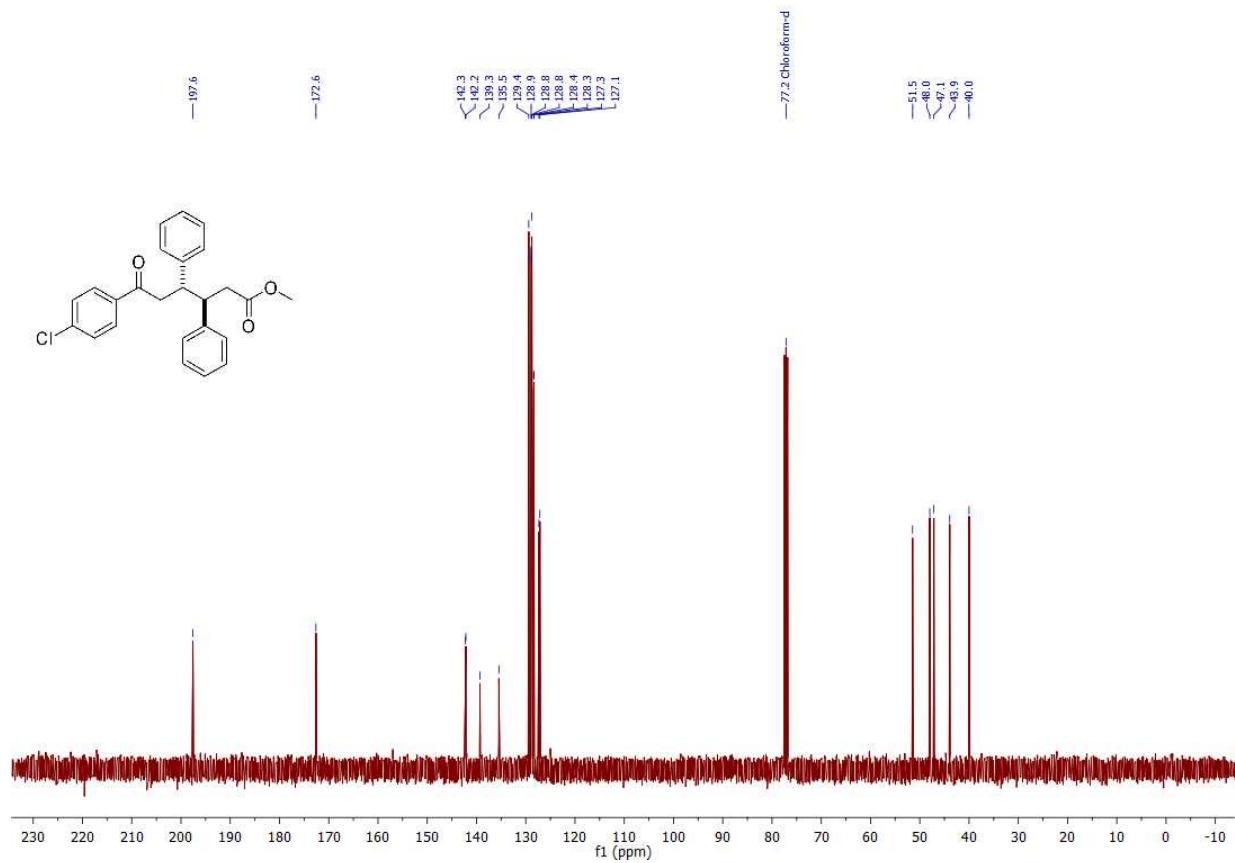


Figure S4. ^{13}C NMR of Methyl 6-(4-chlorophenyl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

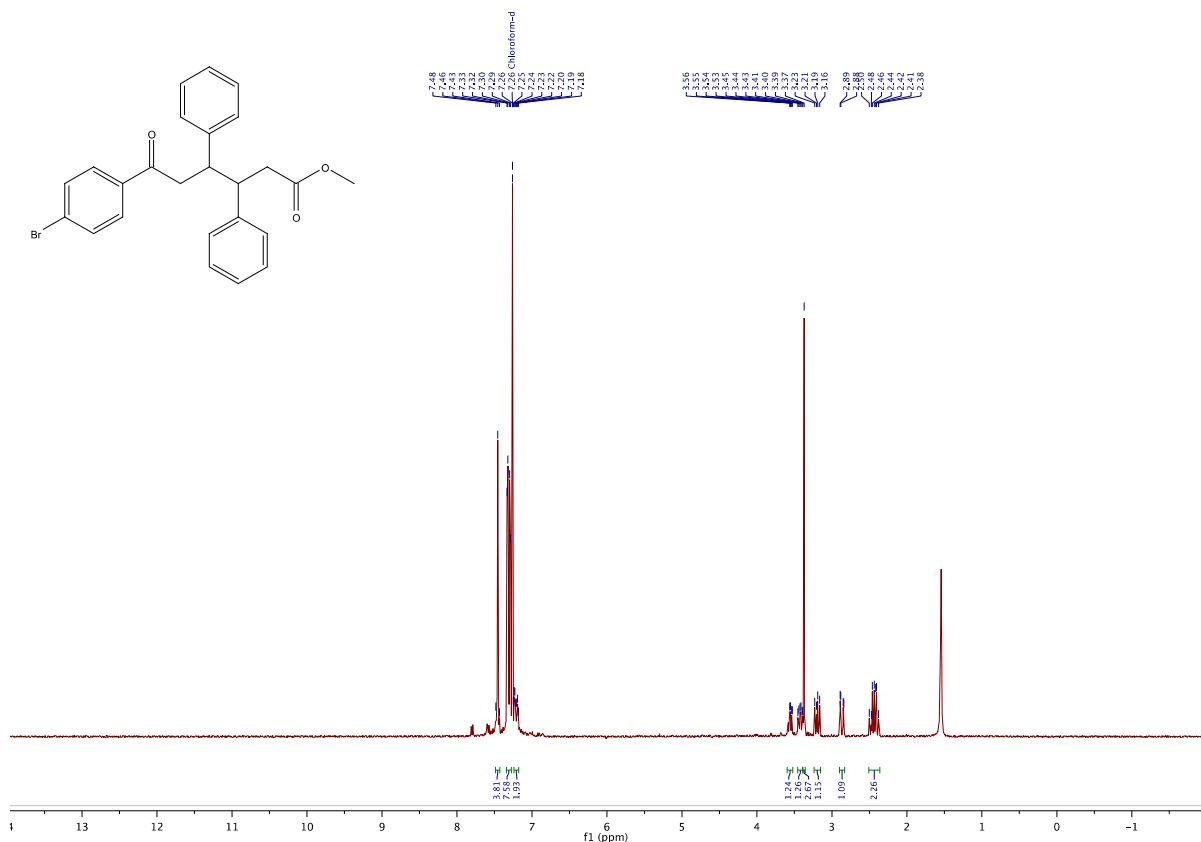


Figure S5. ^1H NMR of Methyl 6-(4-bromophenyl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

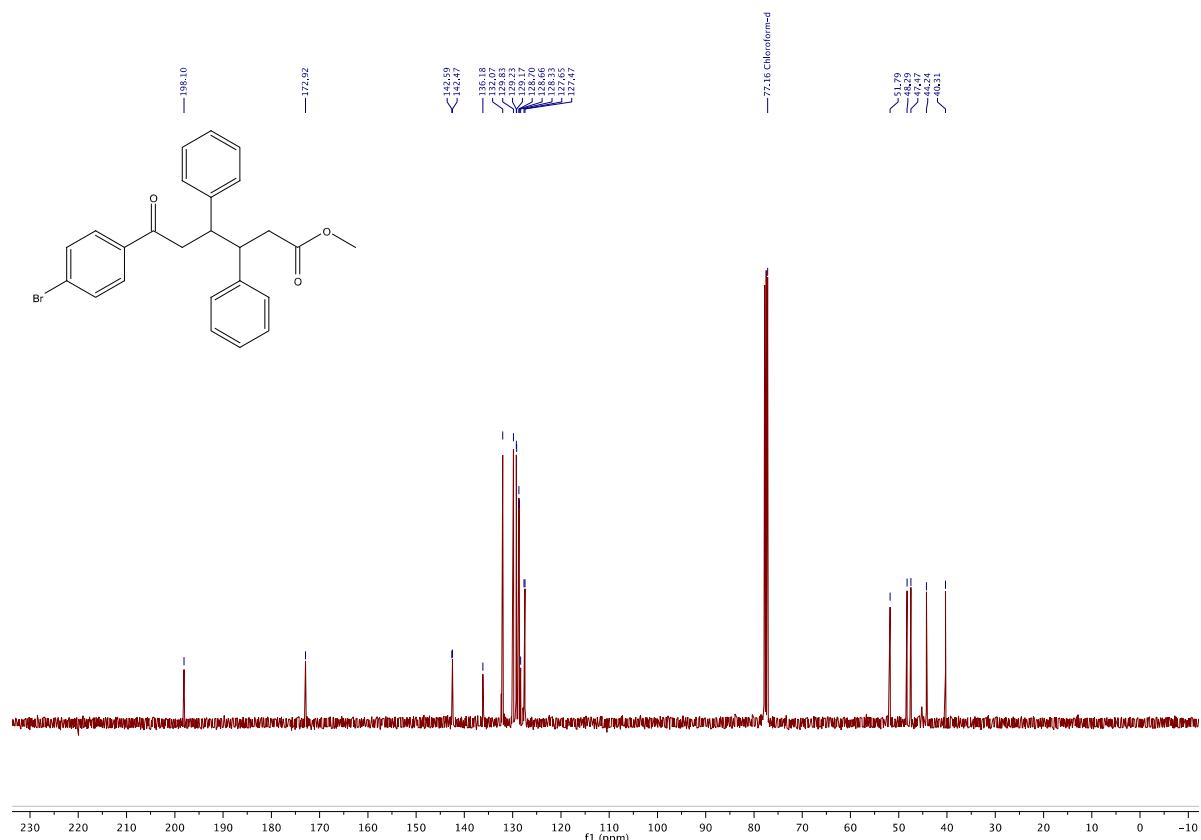


Figure S6. ^{13}C NMR of Methyl 6-(4-chlorophenyl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

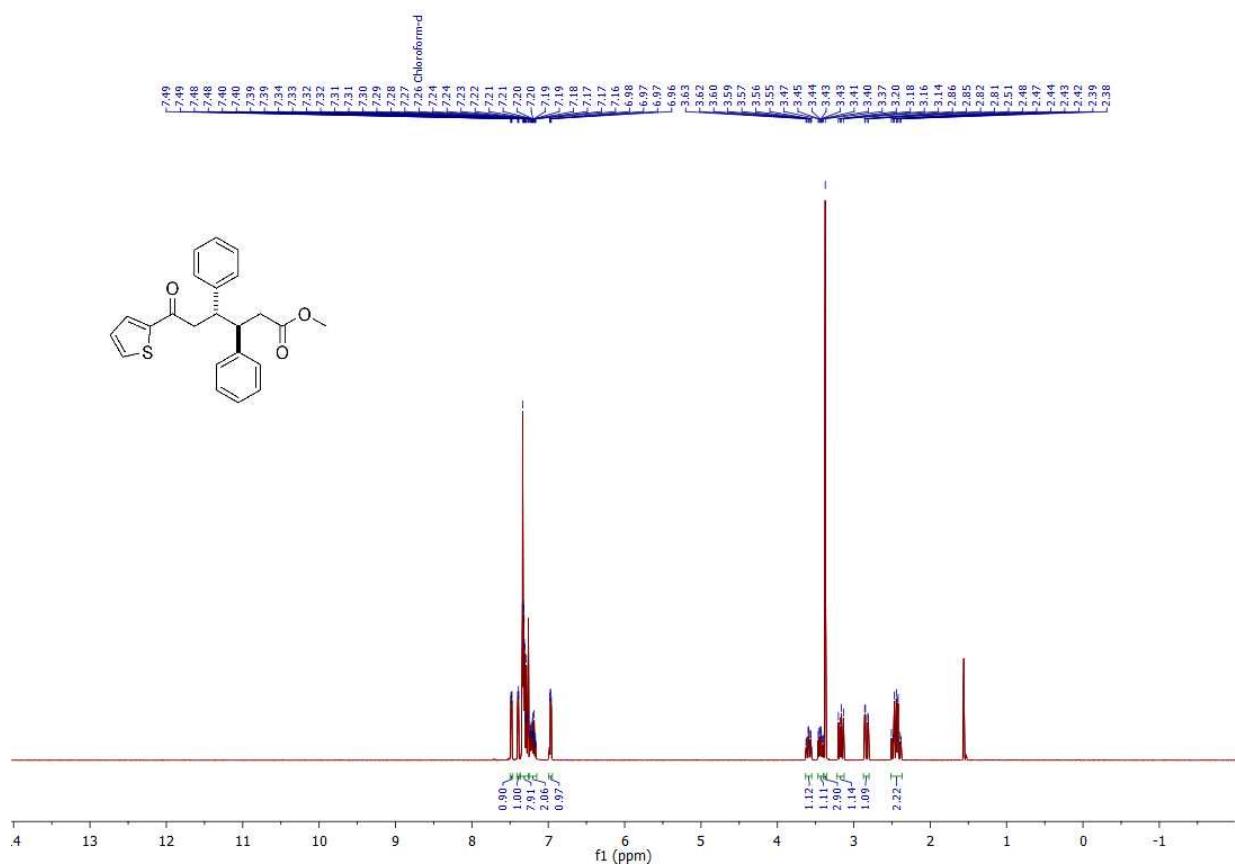


Figure S7. ^1H NMR of Methyl-6-oxo-3,4-diphenyl-6-(thiophen-2-yl)hexanoate (CDCl_3).

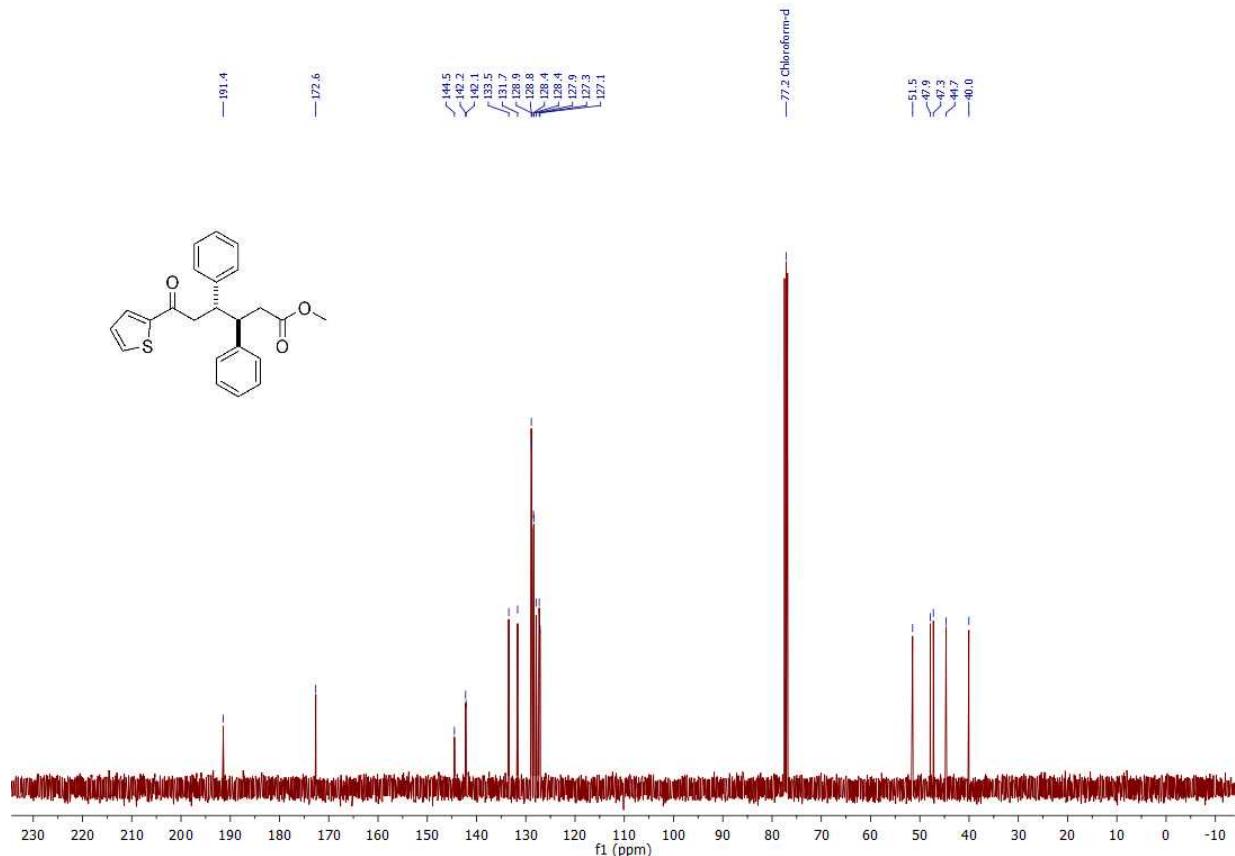


Figure S8. ^{13}C NMR of Methyl-6-oxo-3,4-diphenyl-6-(thiophen-2-yl)hexanoate (CDCl_3).

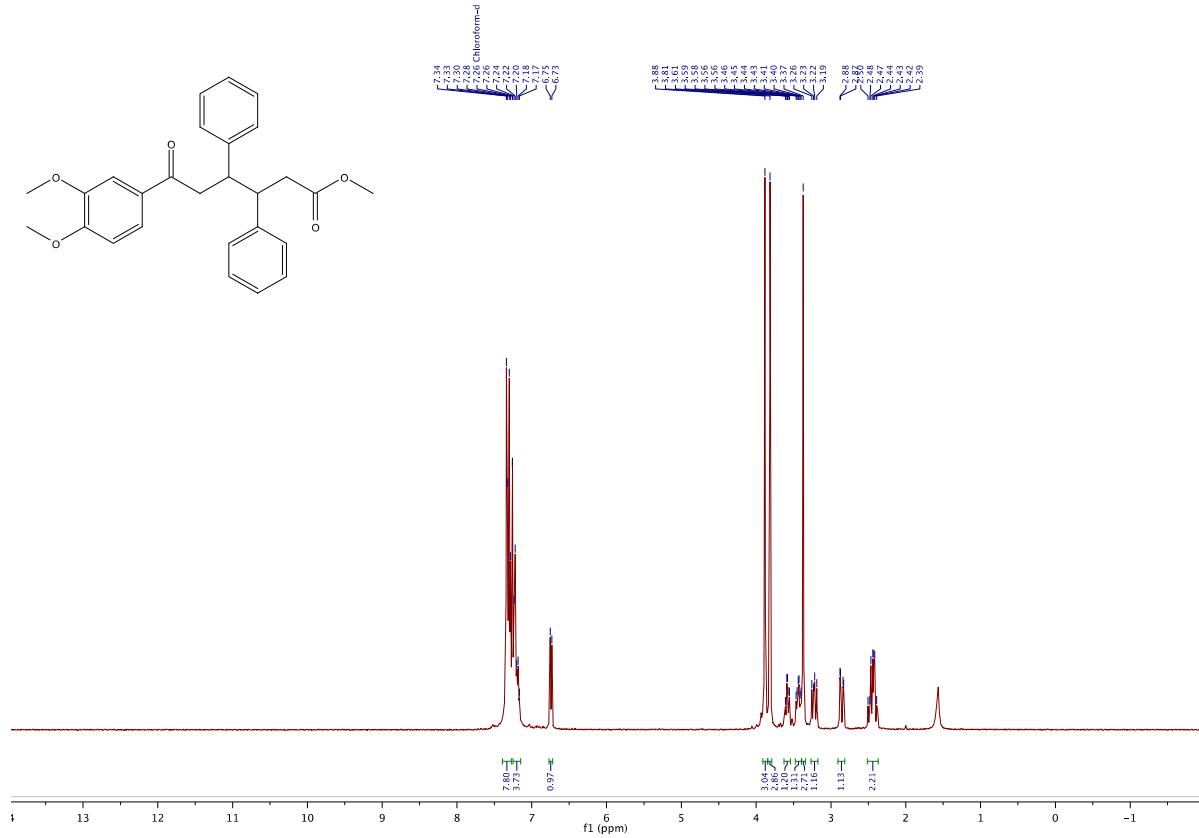


Figure S9. ^1H NMR of Methyl 6-(3,4-dimethoxyphenyl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

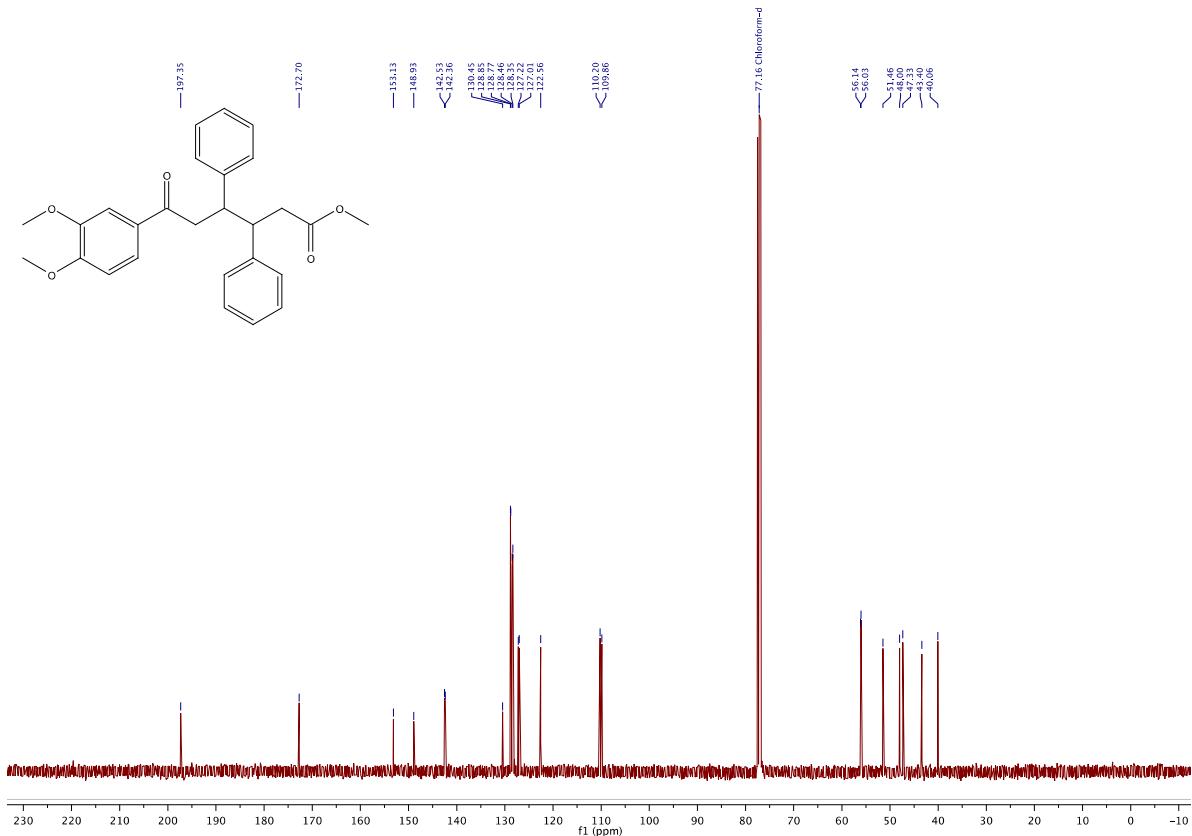


Figure S10. ^{13}C NMR of Methyl 6-(3,4-dimethoxyphenyl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

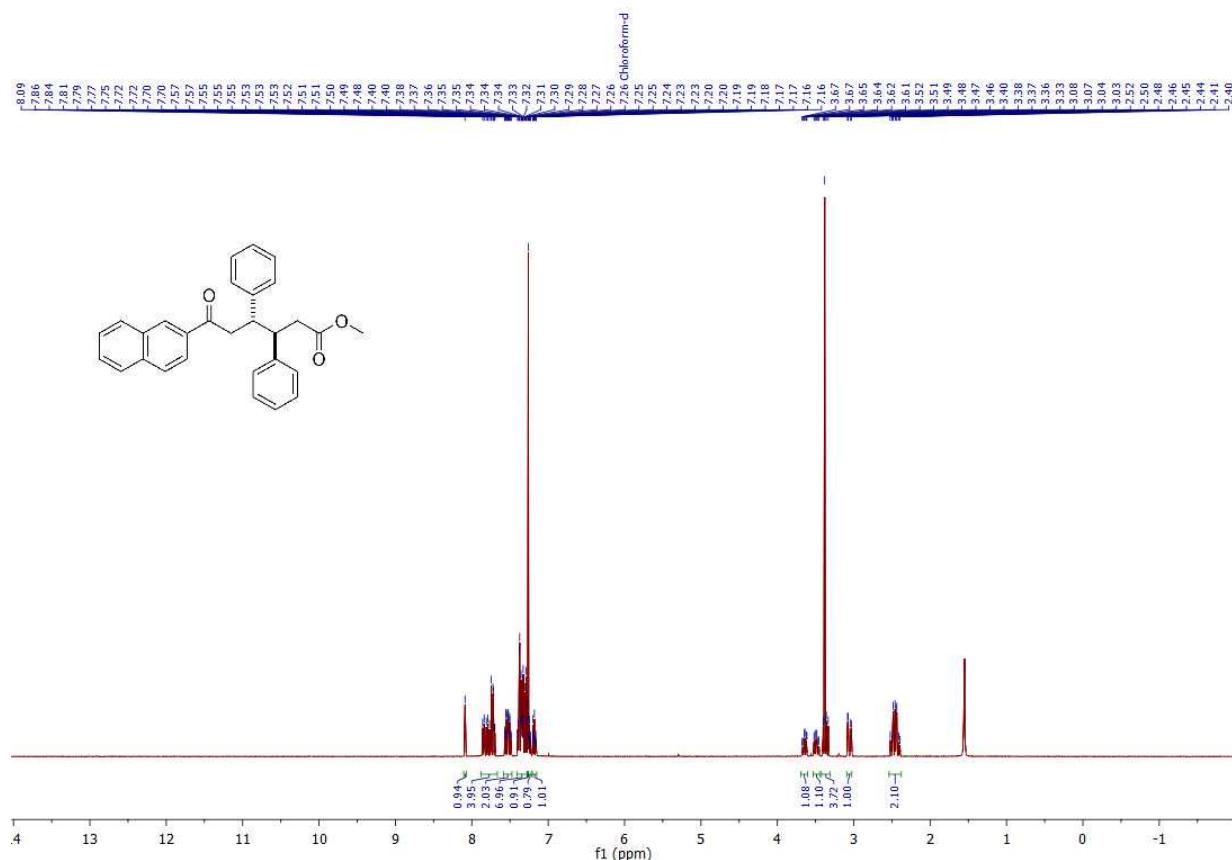


Figure S11. ^1H NMR of Methyl-6-(naphthalen-2-yl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

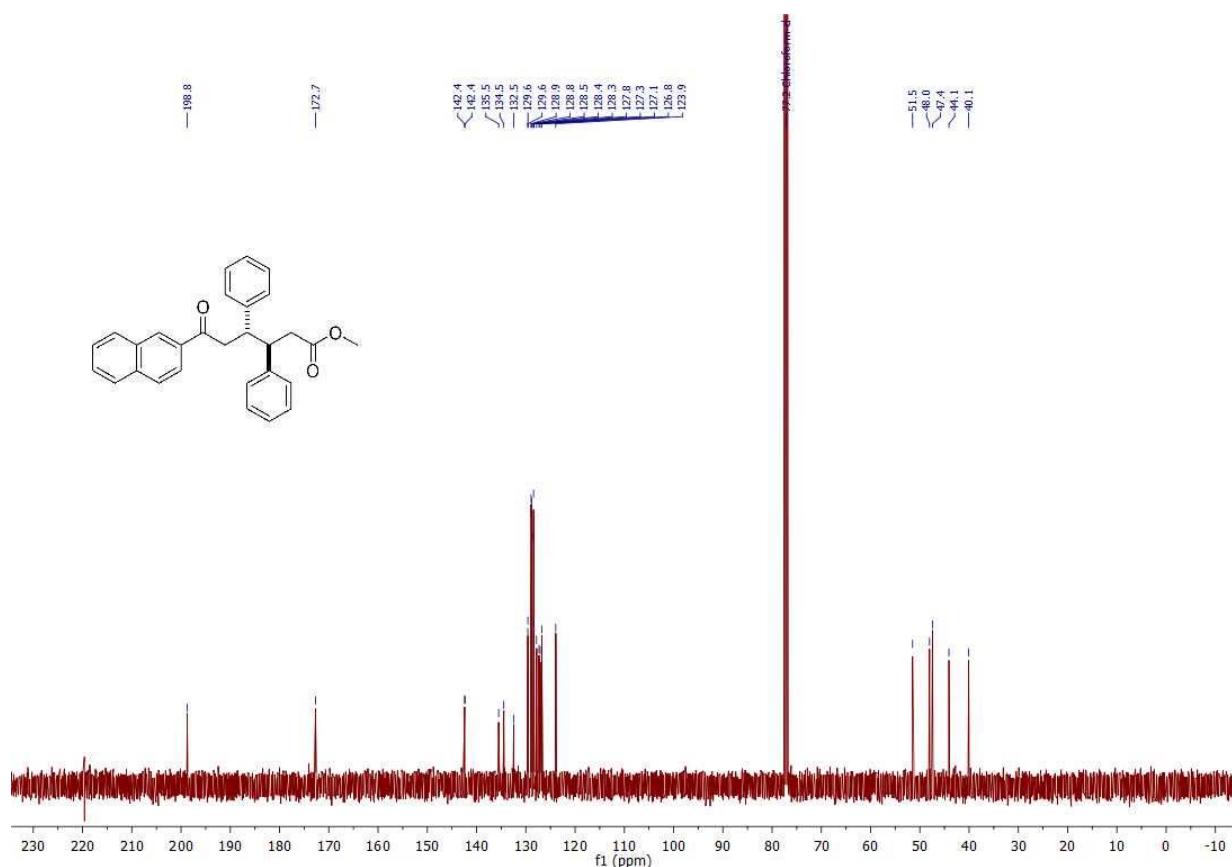


Figure S12. ^{13}C NMR of Methyl-6-(naphthalen-2-yl)-6-oxo-3,4-diphenylhexanoate (CDCl_3).

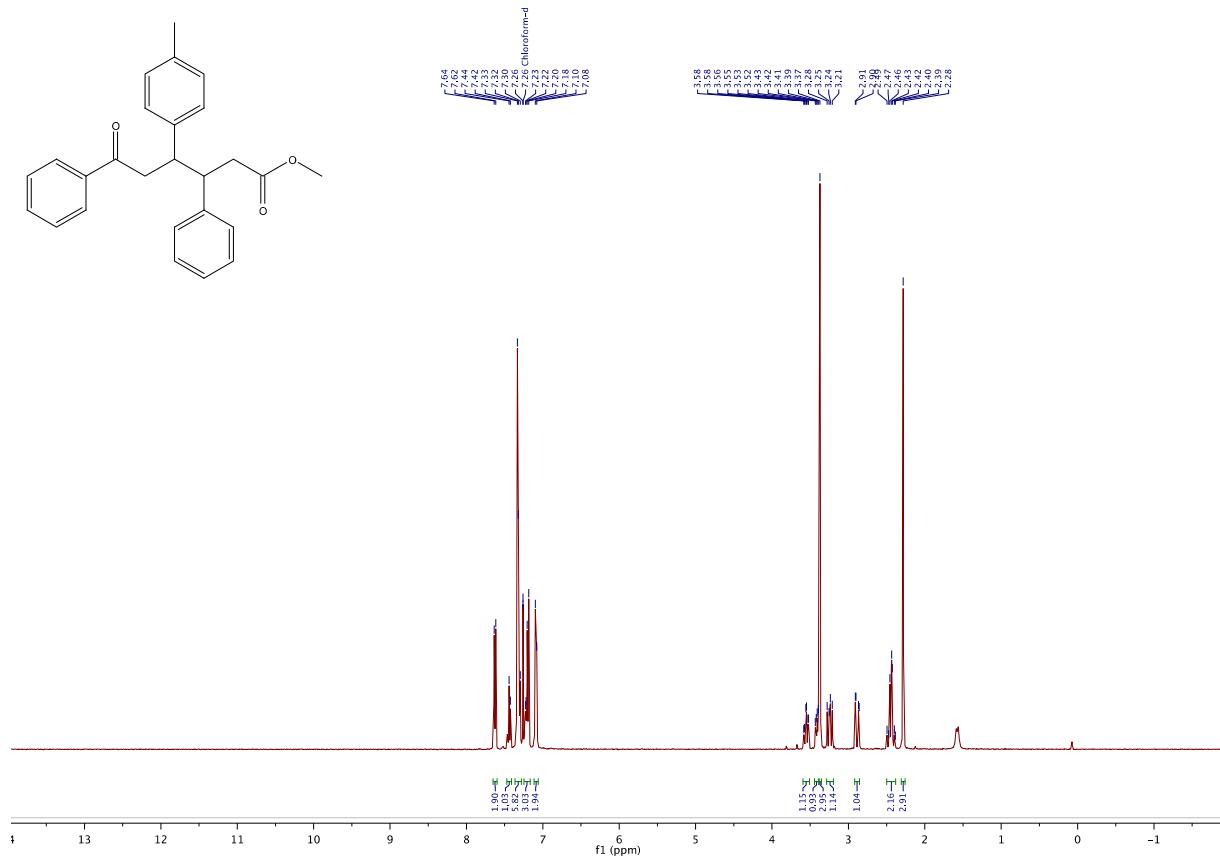


Figure S13. ^1H NMR of Methyl 6-oxo-3,6-diphenyl-4-(p-tolyl)hexanoate (CDCl_3).

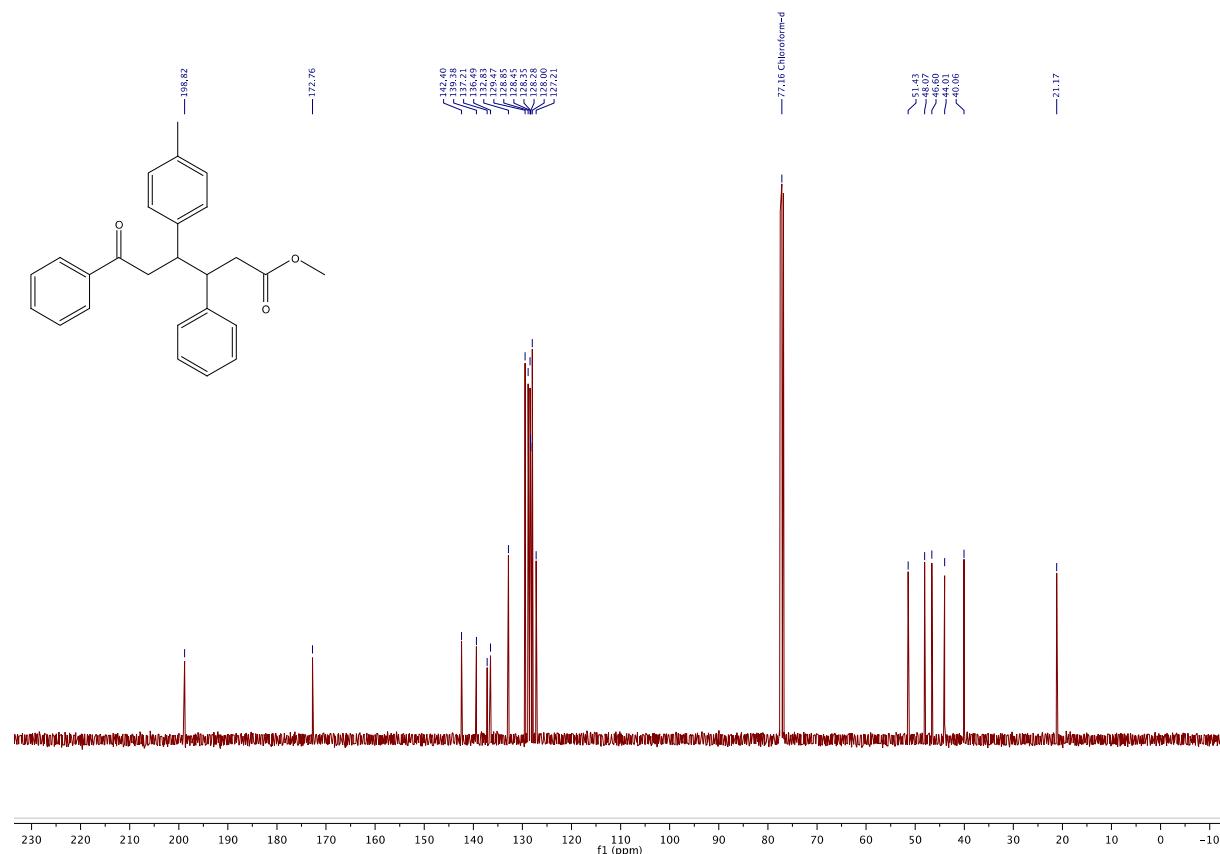


Figure S14. ^{13}C NMR of Methyl 6-oxo-3,6-diphenyl-4-(p-tolyl)hexanoate (CDCl_3).

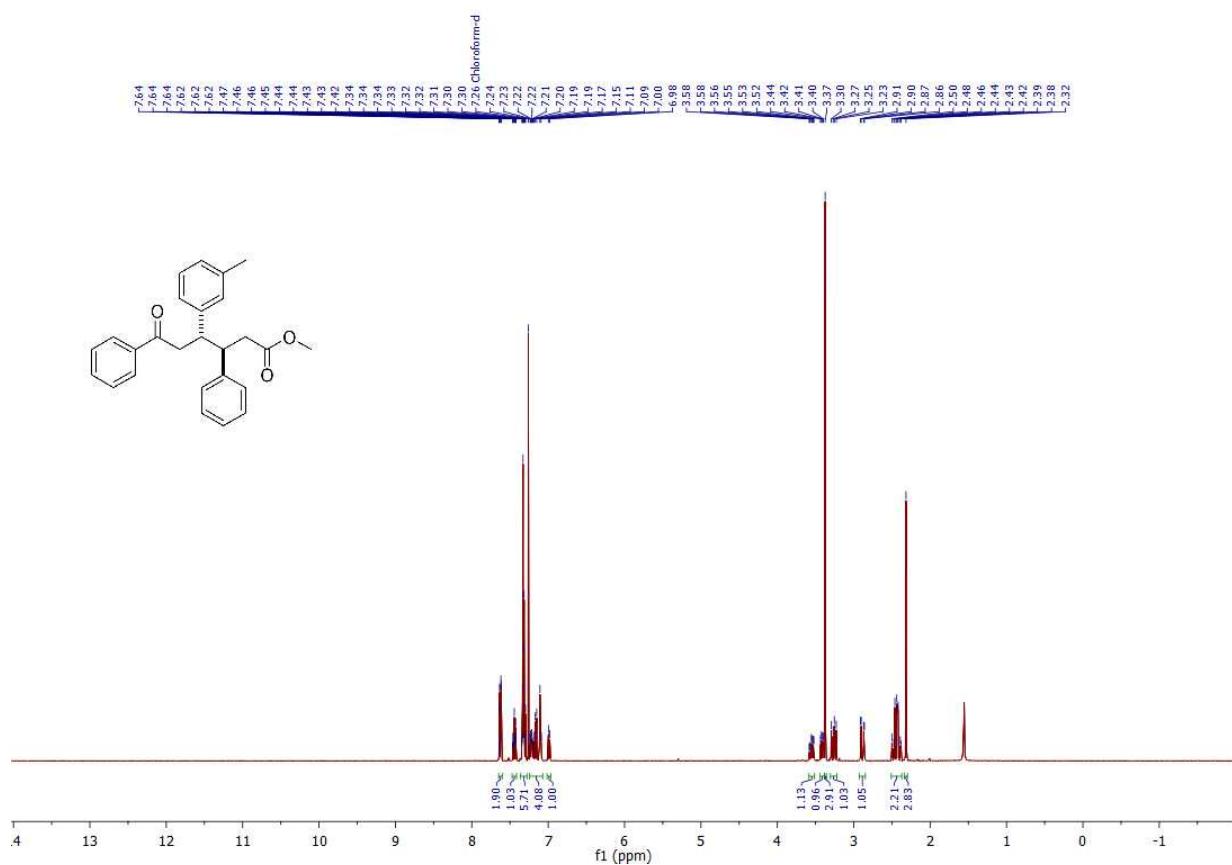


Figure S15. ^1H NMR of Methyl 6-oxo-3,6-diphenyl-4-(m-tolyl)hexanoate (CDCl_3).

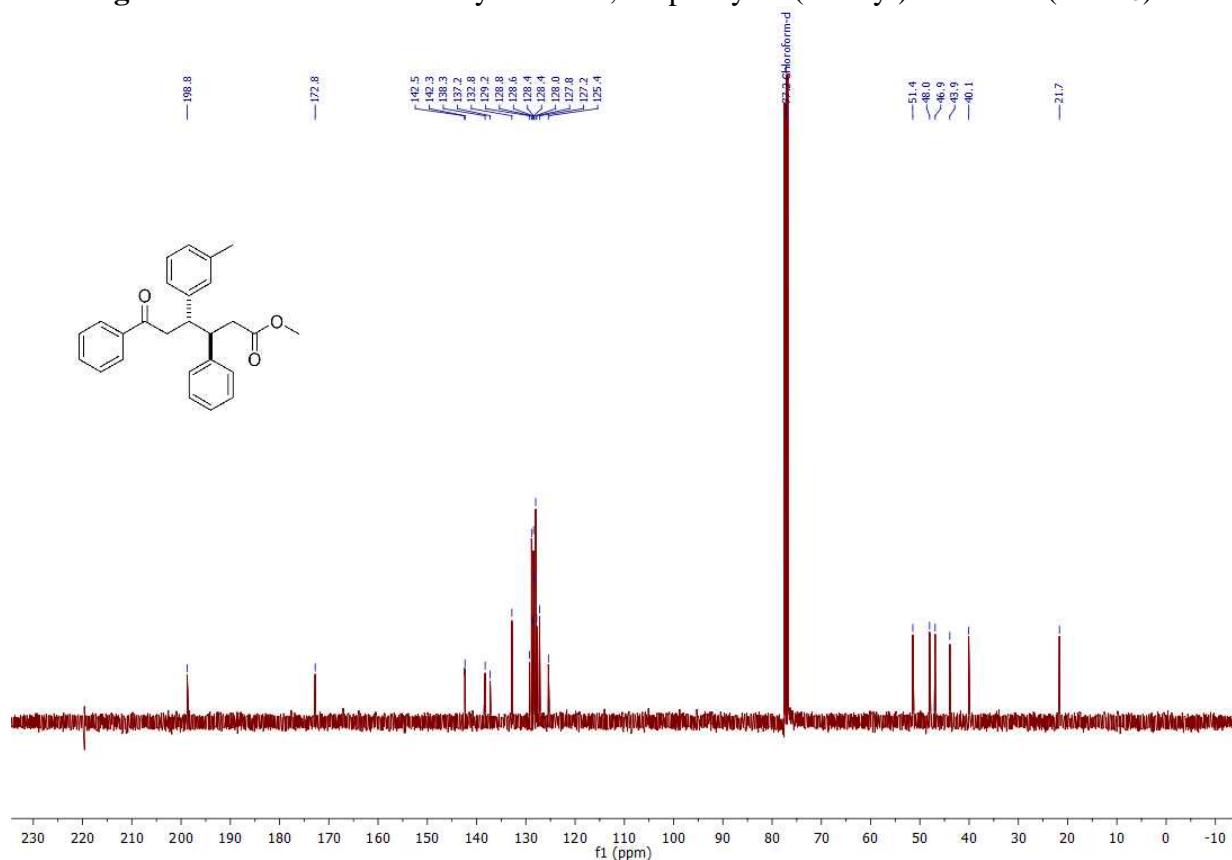


Figure S16. ^{13}C NMR of Methyl 6-oxo-3,6-diphenyl-4-(m-tolyl)hexanoate (CDCl_3).

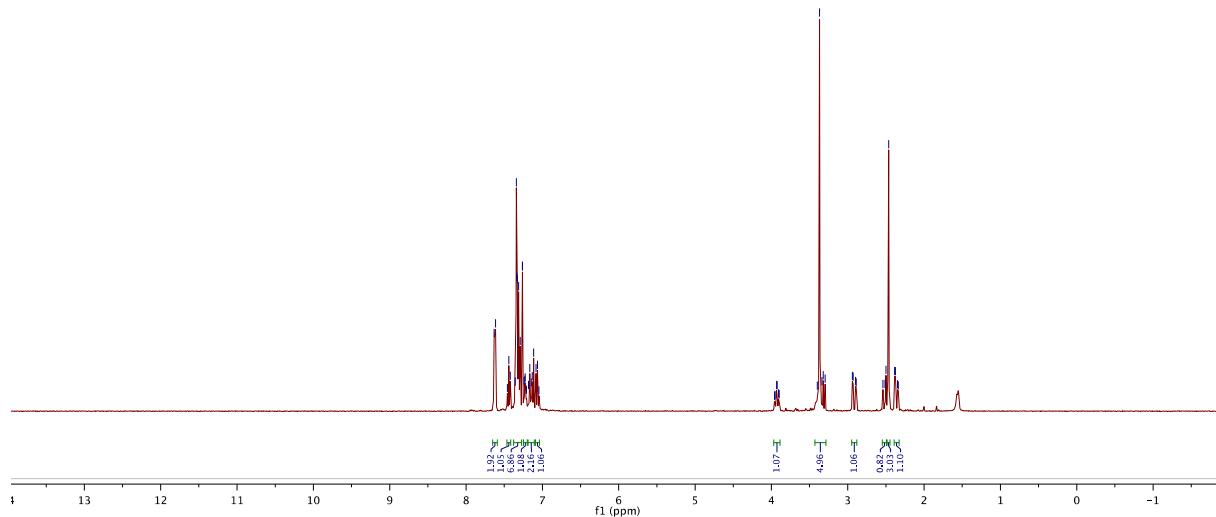
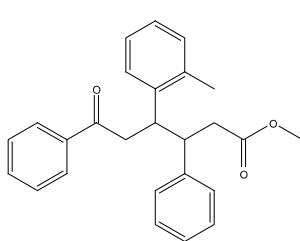


Figure S17. ^1H NMR of Methyl 6-oxo-3,6-diphenyl-4-(o-tolyl)hexanoate (CDCl_3).

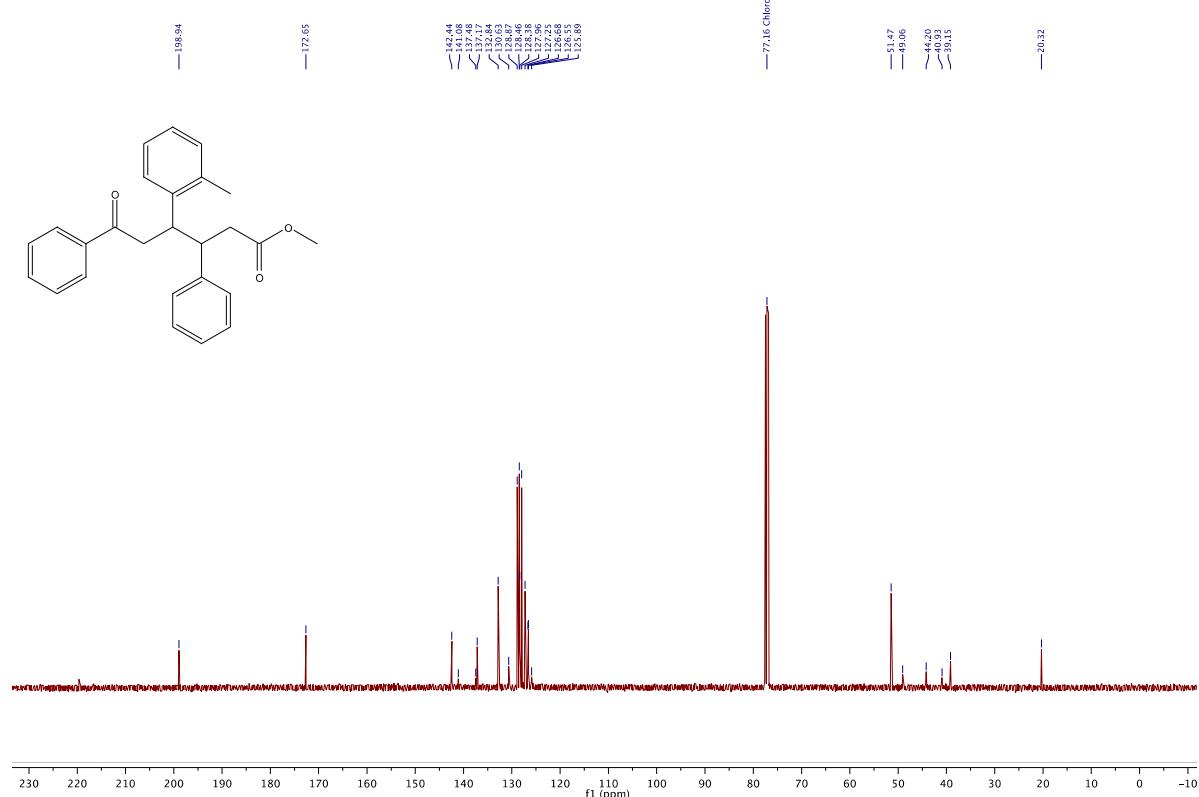
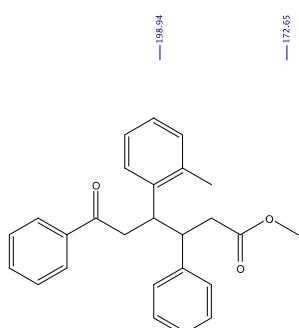


Figure S18. ^{13}C NMR of Methyl 6-oxo-3,6-diphenyl-4-(o-tolyl)hexanoate (CDCl_3).

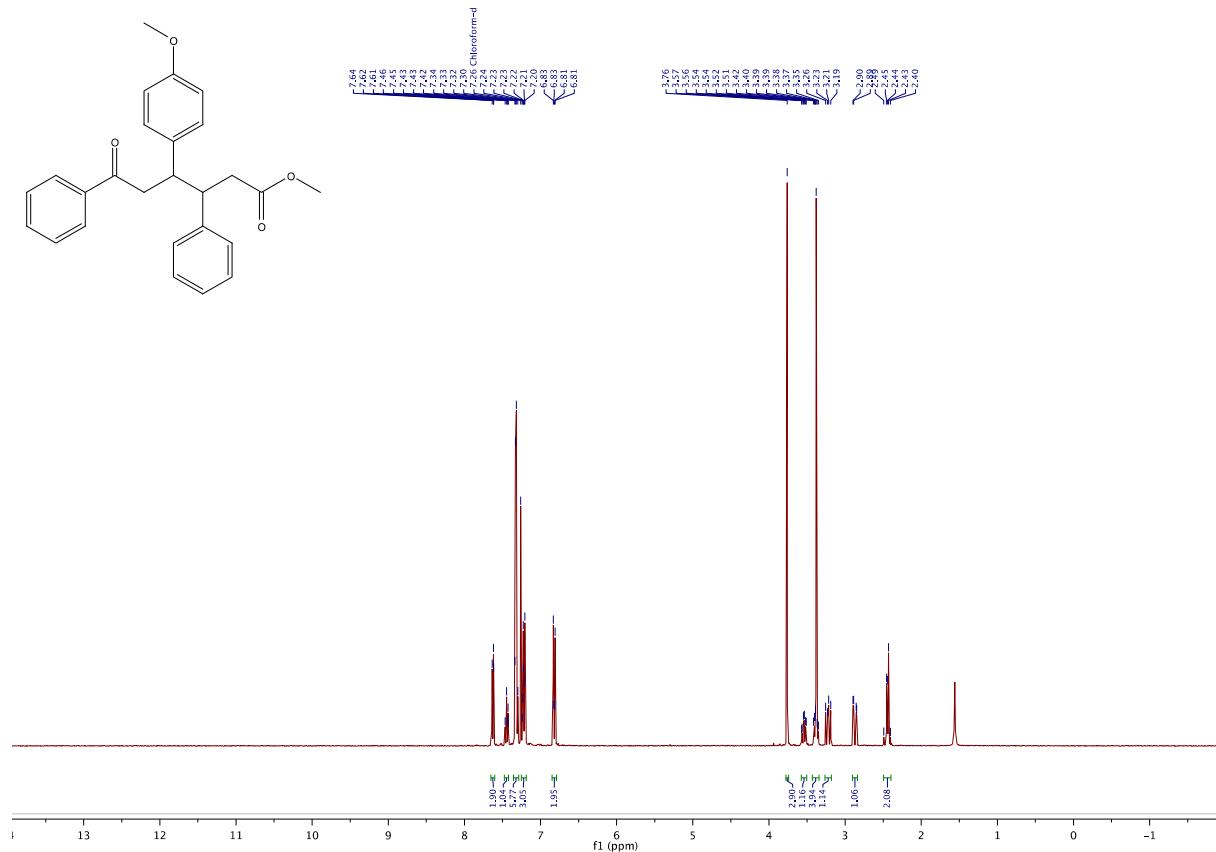


Figure S19. ¹H NMR of Methyl 4-(4-methoxyphenyl)-6-oxo-3,6-diphenylhexanoate (CDCl₃).

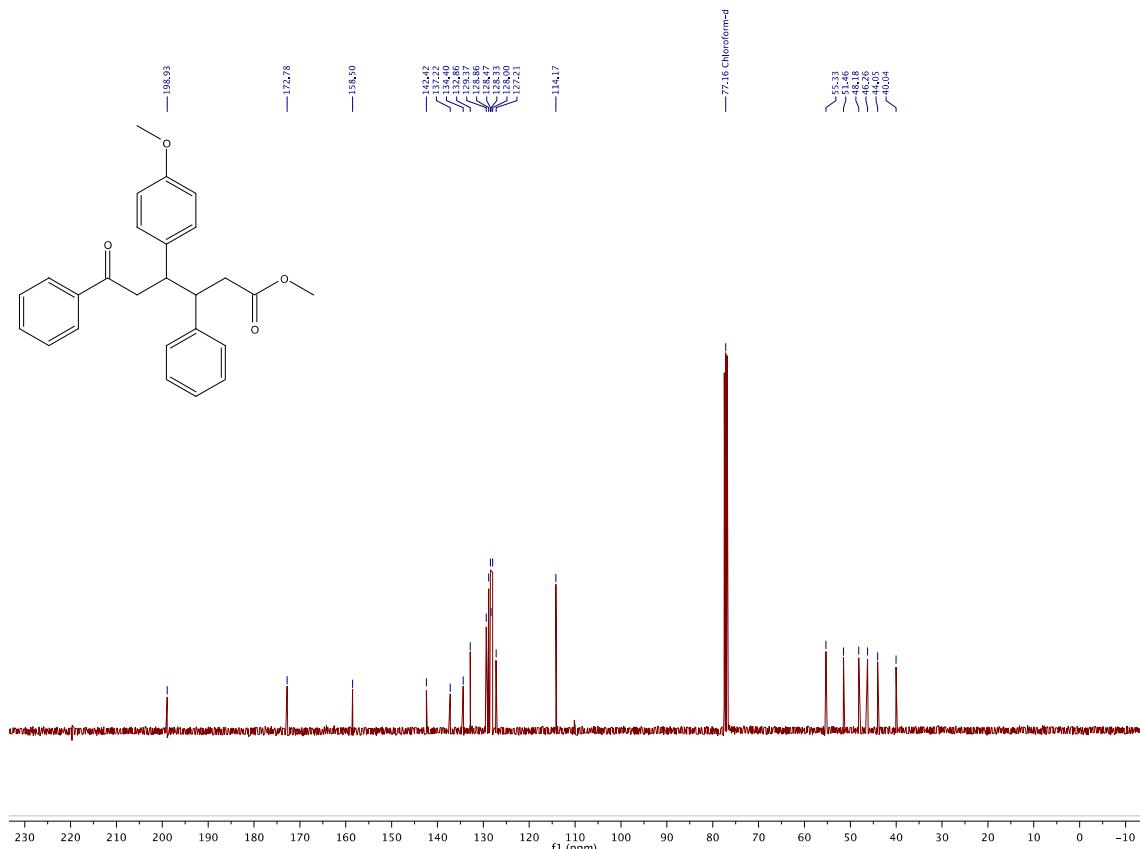


Figure S20. ¹³C NMR of Methyl 4-(4-methoxyphenyl)-6-oxo-3,6-diphenylhexanoate (CDCl₃).

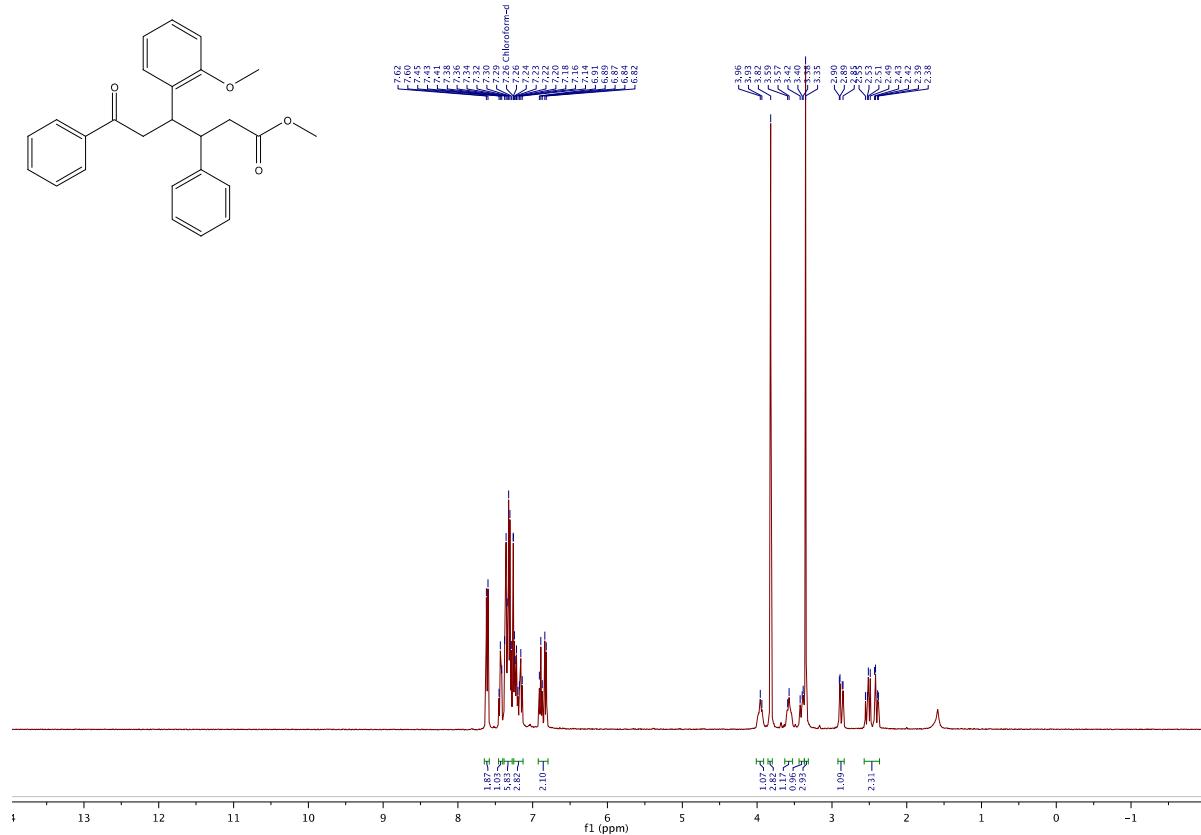


Figure S21. ^1H NMR of Methyl 4-(2-methoxyphenyl)-6-oxo-3,6-diphenylhexanoate (CDCl_3).

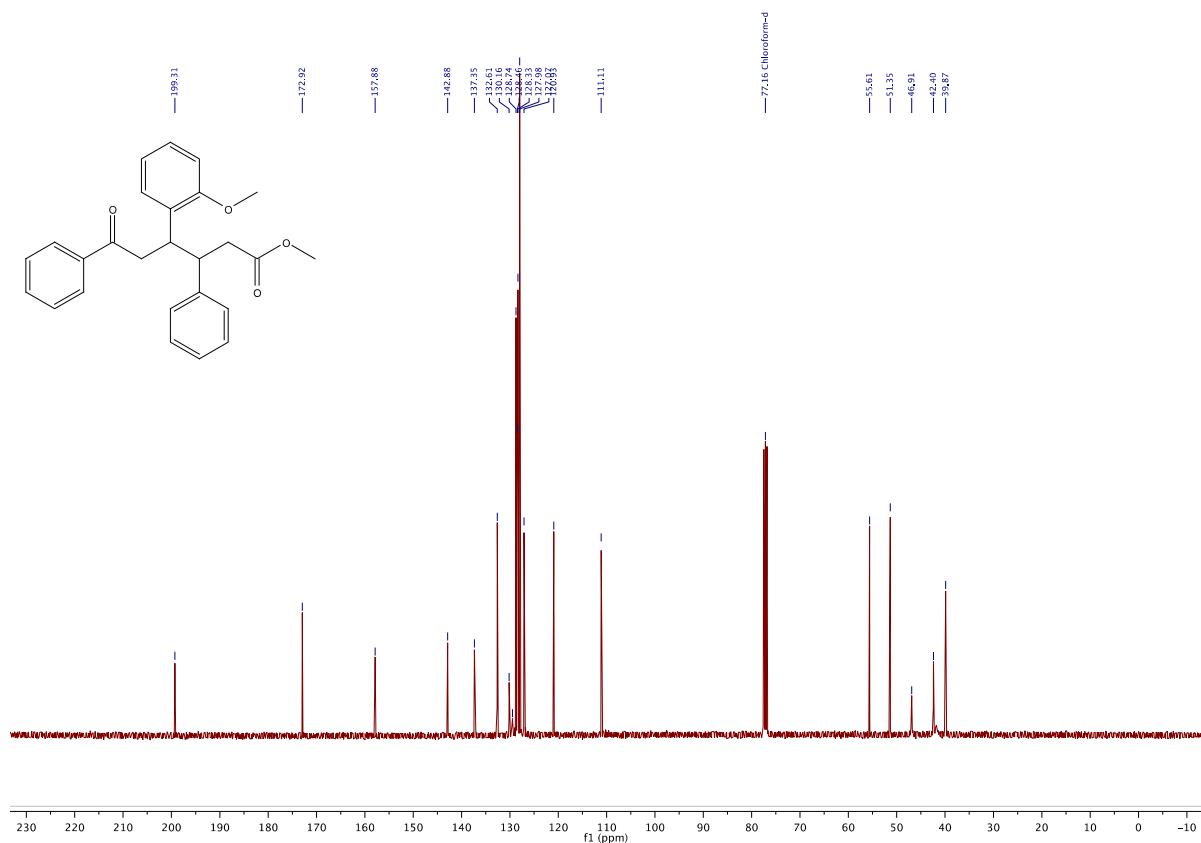


Figure S22. ^{13}C NMR of Methyl 4-(2-methoxyphenyl)-6-oxo-3,6-diphenylhexanoate (CDCl_3).

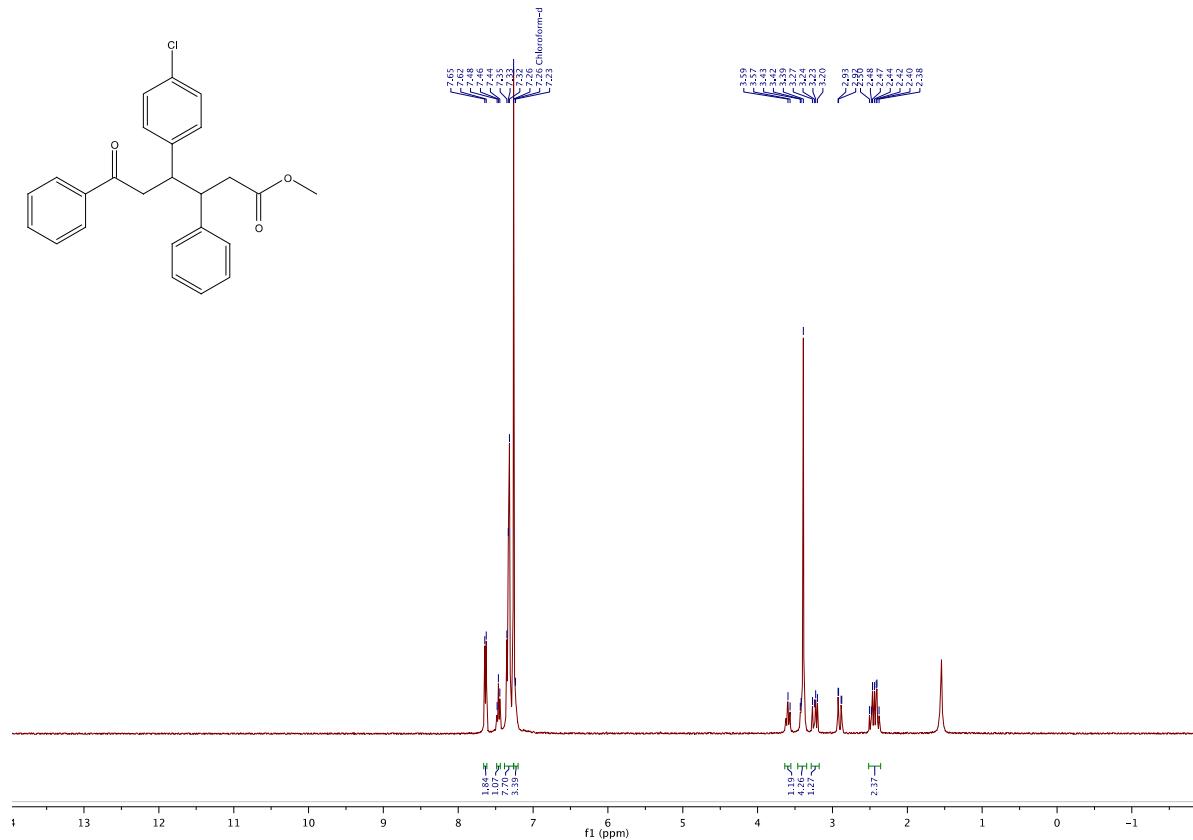


Figure S23 ^1H NMR of Methyl-4-(4-chlorophenyl)-6-oxo-3,6-diphenylhexanoate (CDCl_3).

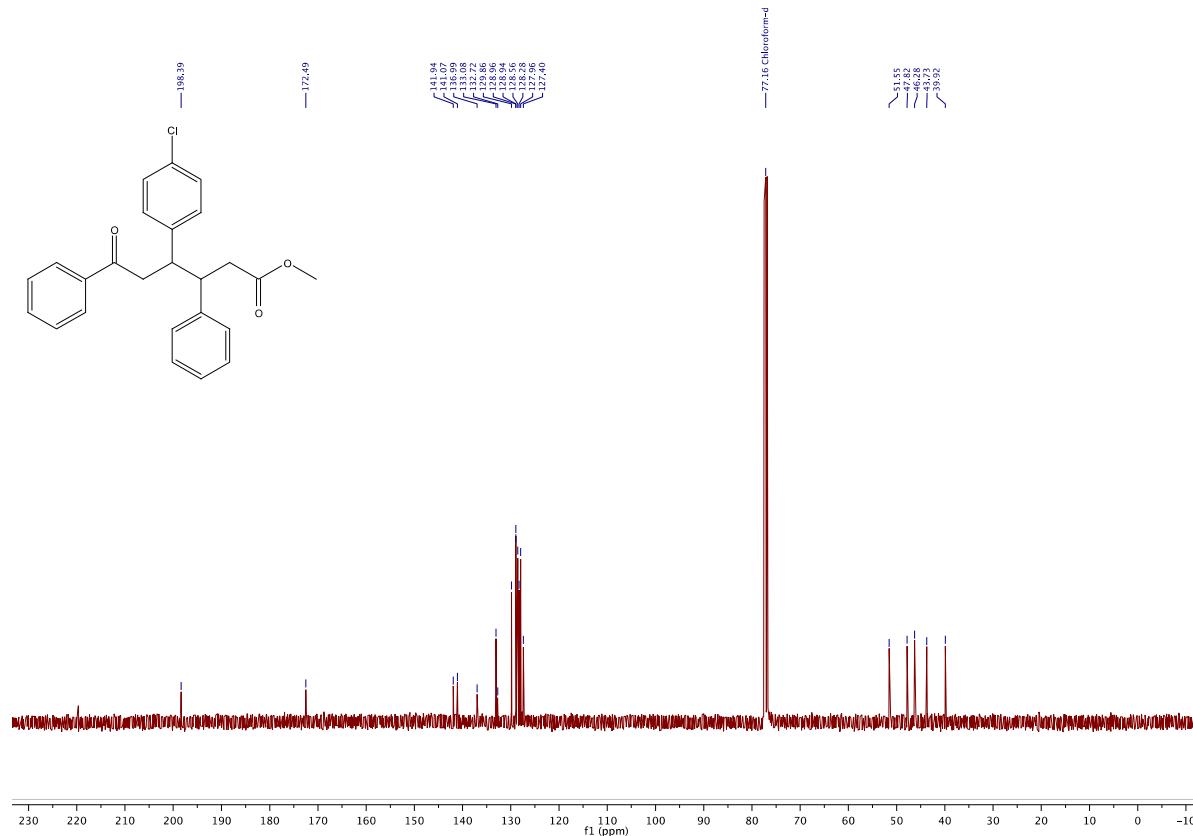


Figure S24. ^{13}C NMR of Methyl-4-(4-chlorophenyl)-6-oxo-3,6-diphenylhexanoate (CDCl_3).

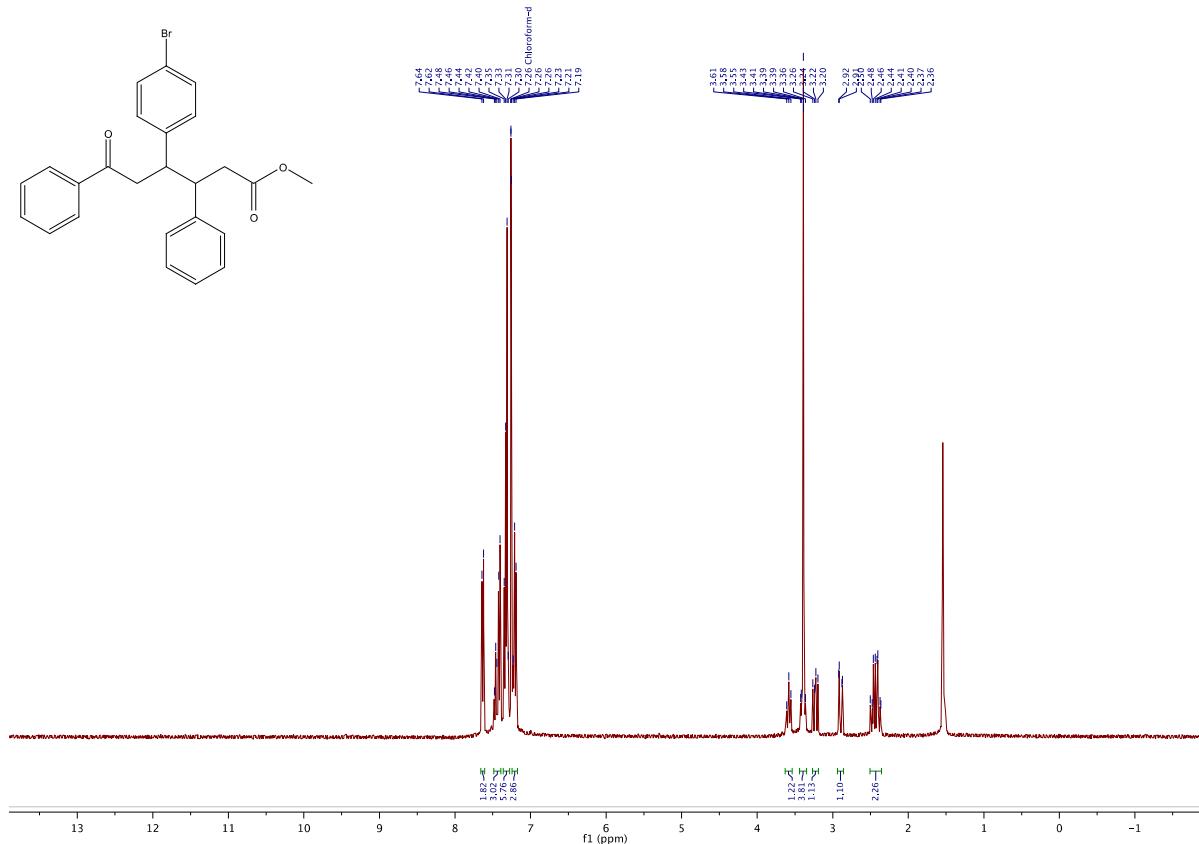


Figure S25. ^1H NMR of Methyl-4-(4-bromophenyl)-6-oxo-3,6-diphenylhexanoate (CDCl_3).

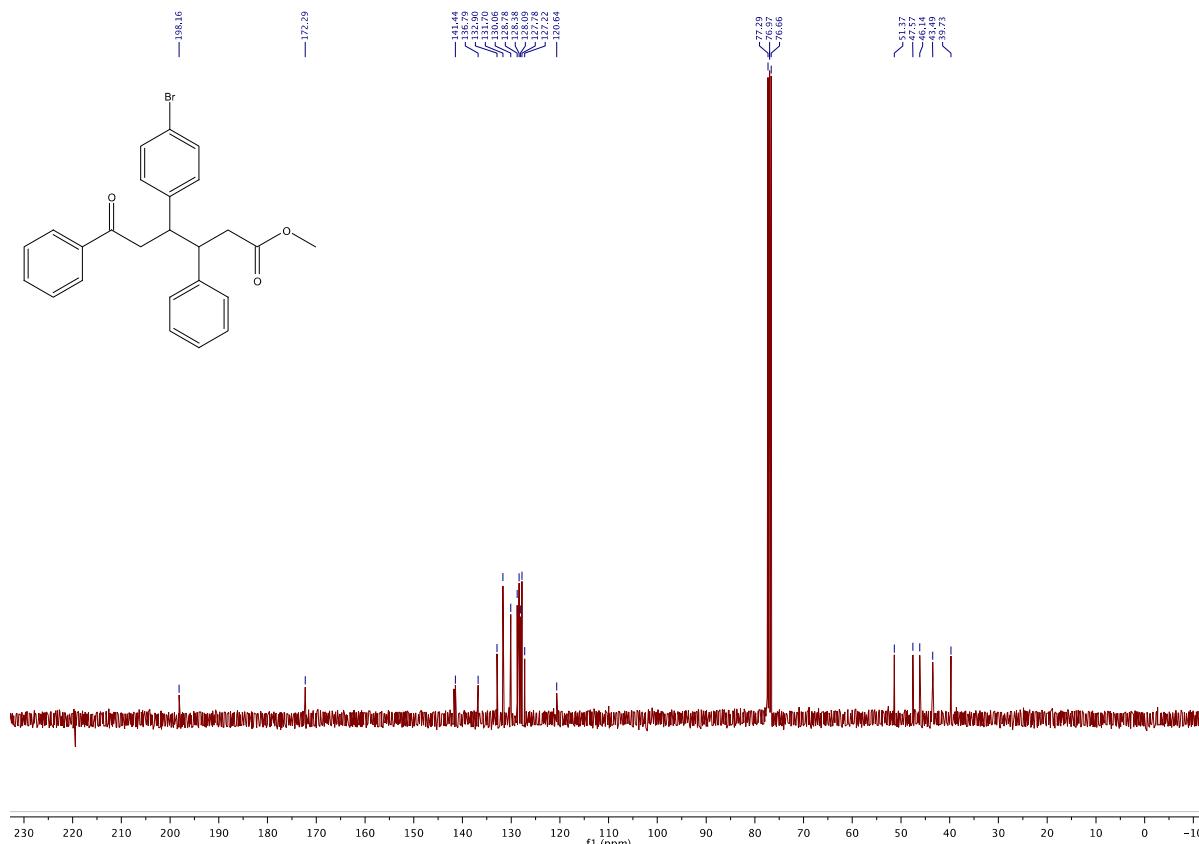
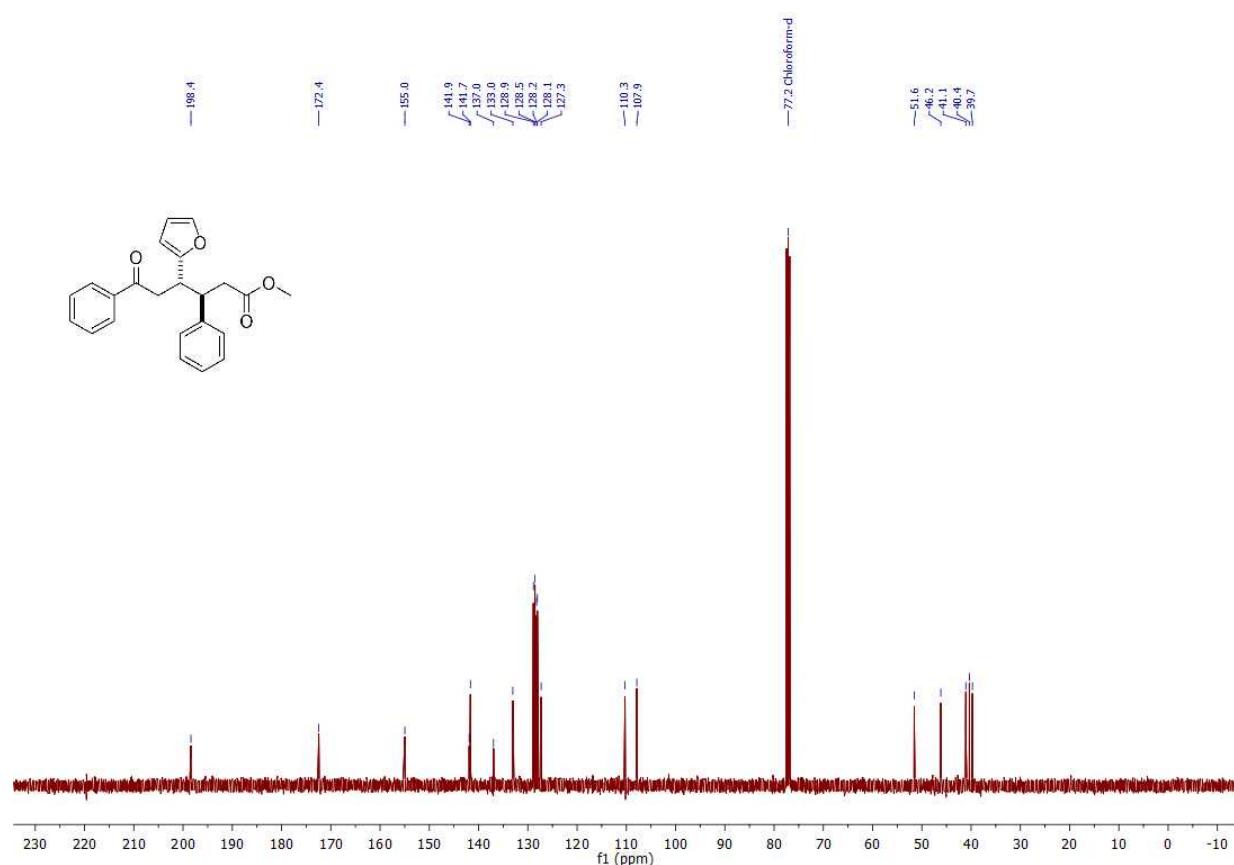
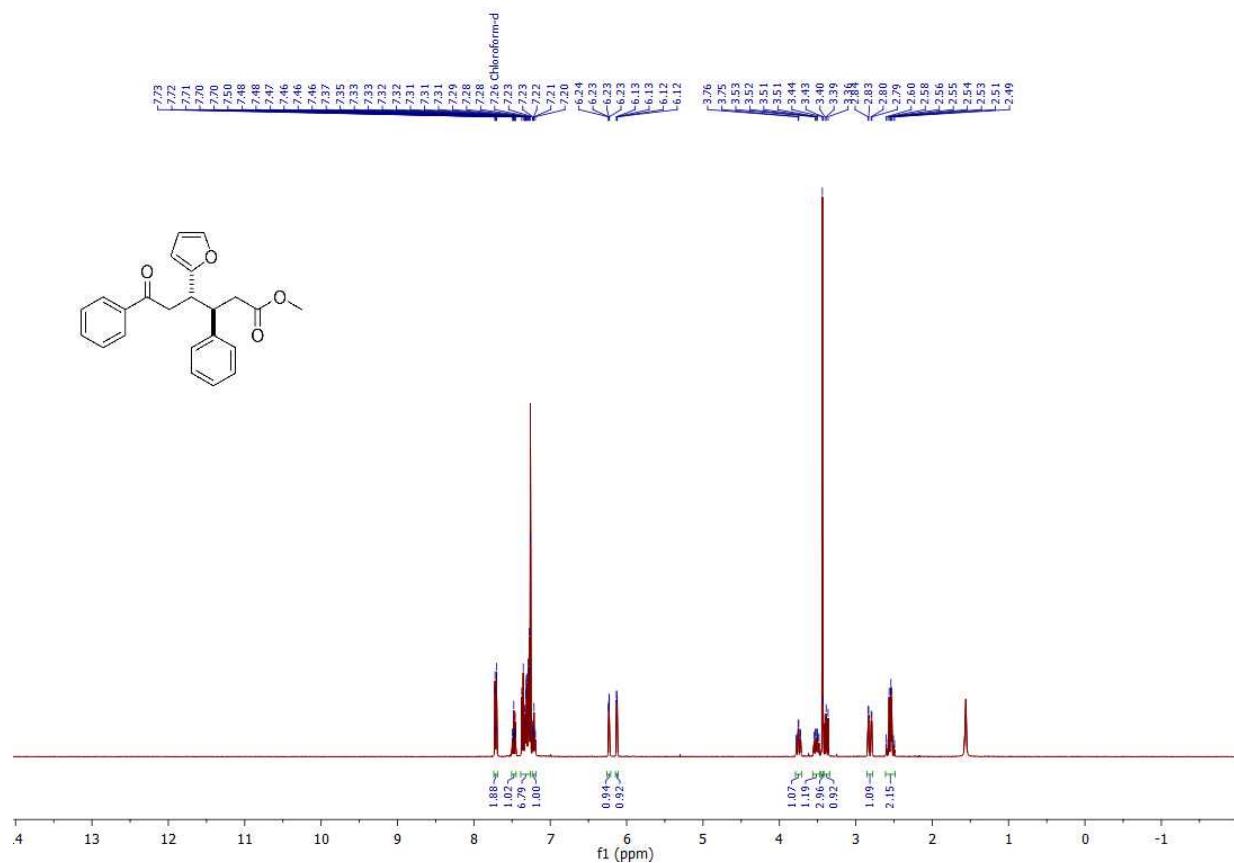


Figure S26. ^{13}C NMR of Methyl-4-(4-bromophenyl)-6-oxo-3,6-diphenylhexanoate (CDCl_3).



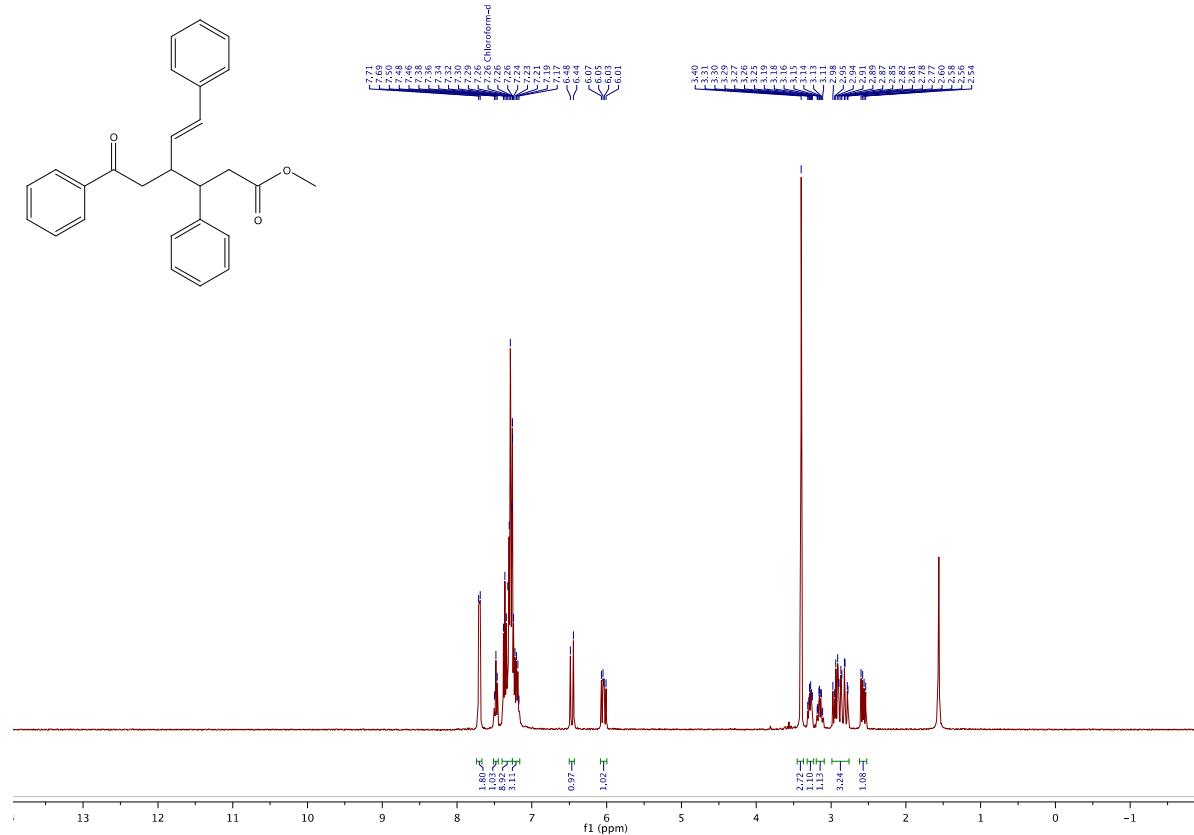


Figure S29. ^1H NMR of Methyl (E)-4-(2-oxo-2-phenylethyl)-3,6-diphenylhex-5-enoate (CDCl_3).

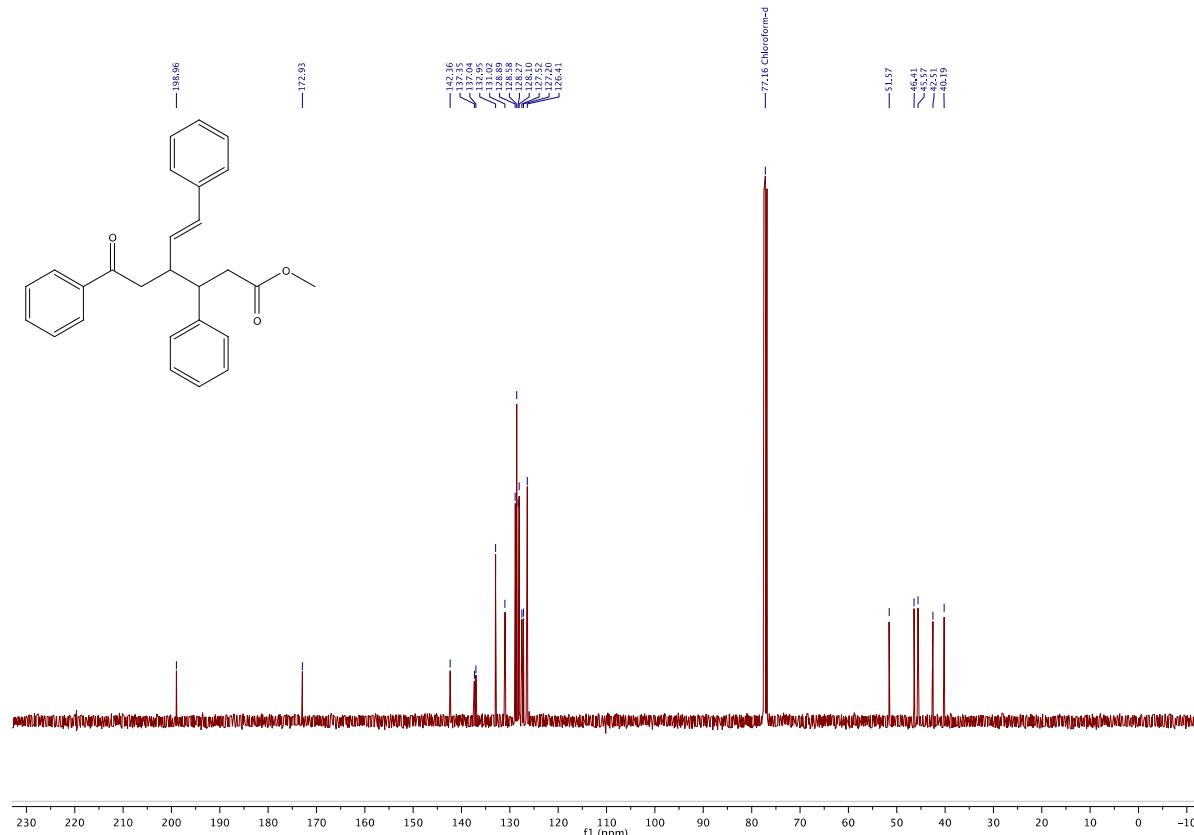


Figure S30. ^{13}C NMR of Methyl (E)-4-(2-oxo-2-phenylethyl)-3,6-diphenylhex-5-enoate (CDCl_3).

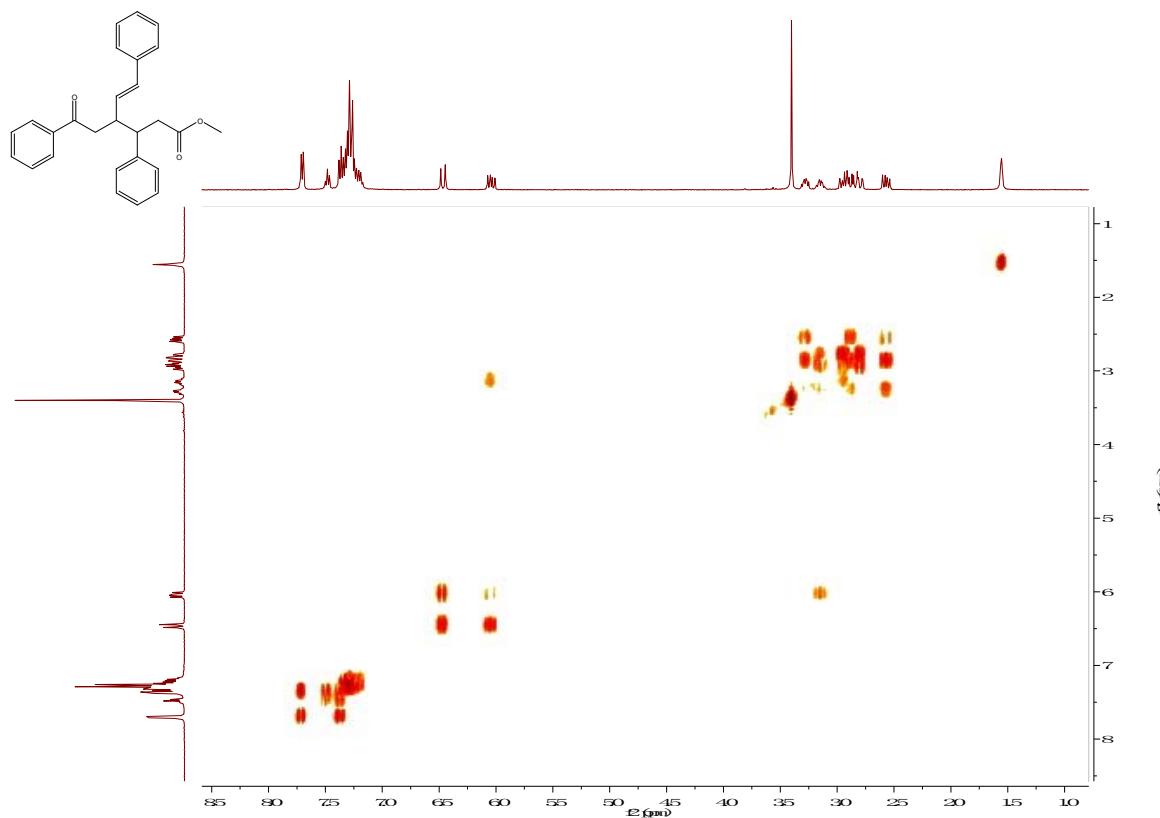


Figure S31. COSY NMR of Methyl (E)-4-(2-oxo-2-phenylethyl)-3,6-diphenylhex-5-enoate (CDCl_3).

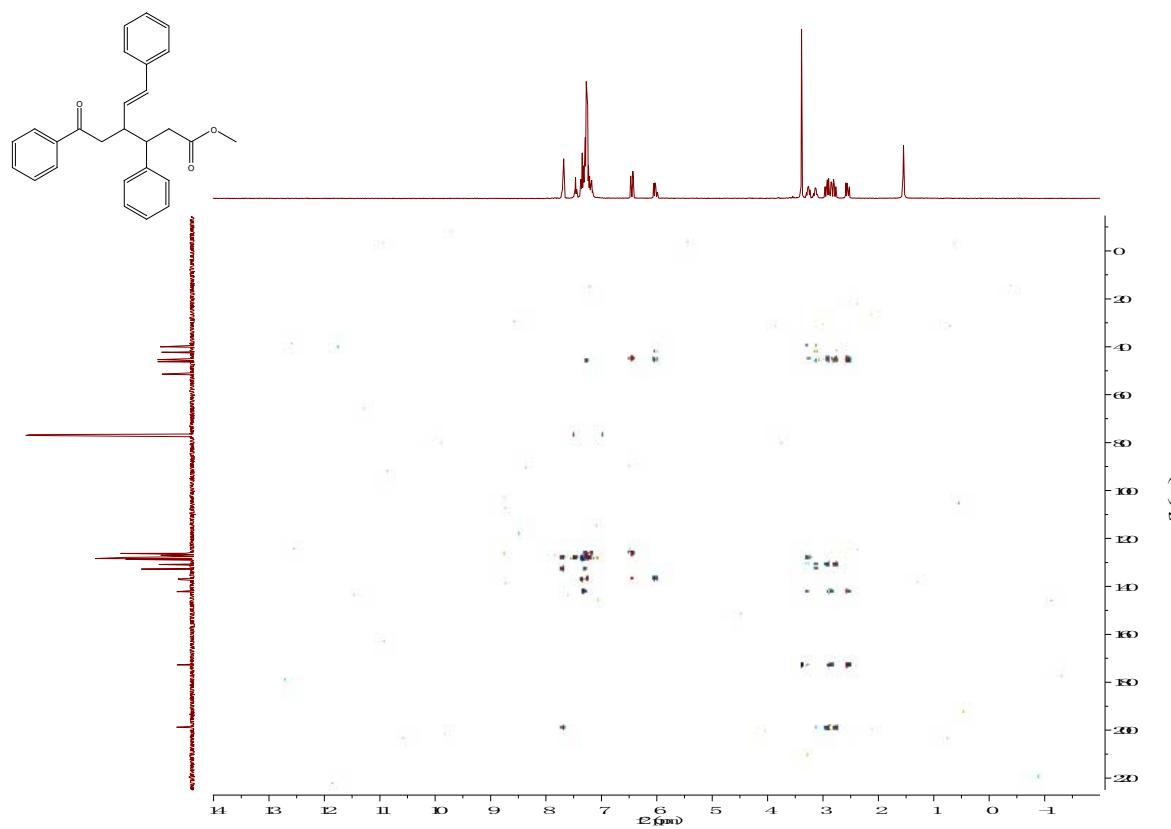


Figure S32. HMBC NMR of Methyl (E)-4-(2-oxo-2-phenylethyl)-3,6-diphenylhex-5-enoate (CDCl_3).

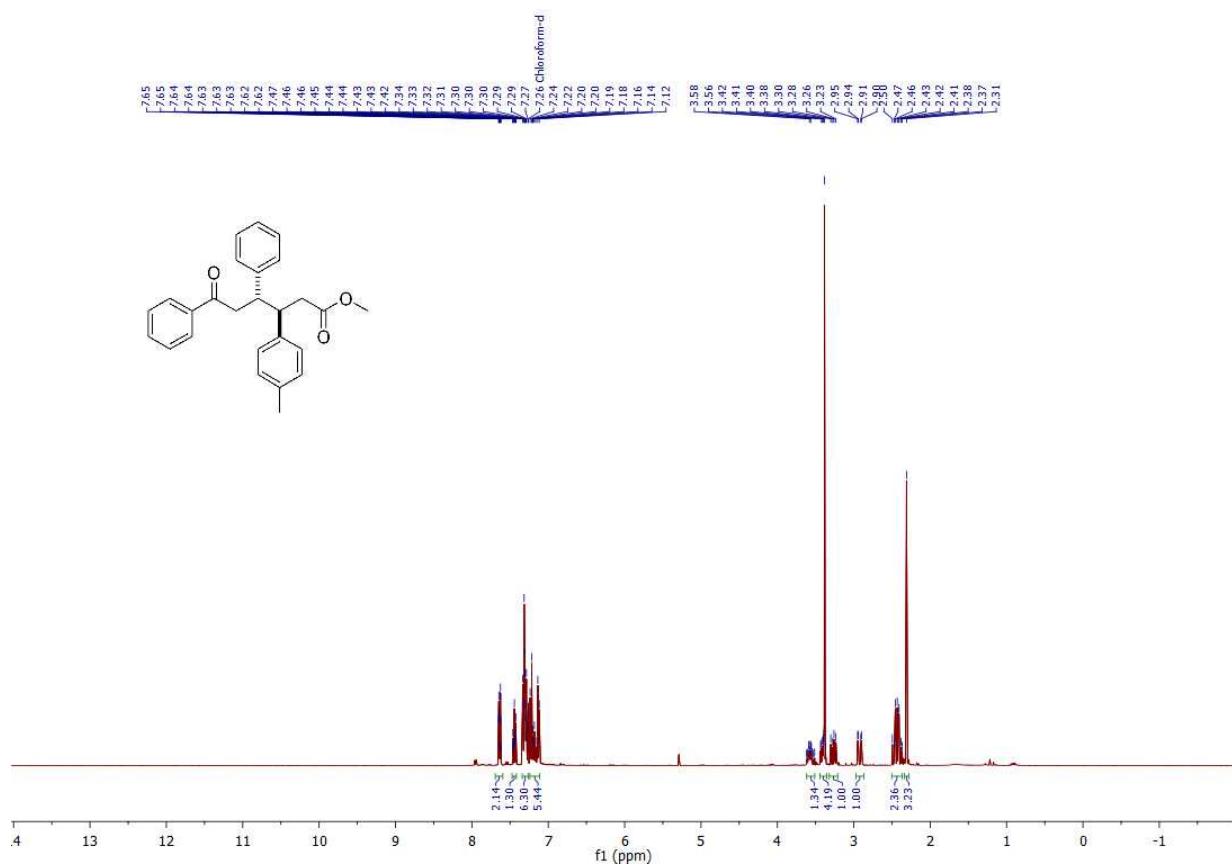


Figure S33. ^1H NMR of Methyl-6-oxo-4,6-diphenyl-3-(p-tolyl)hexanoate (CDCl_3).

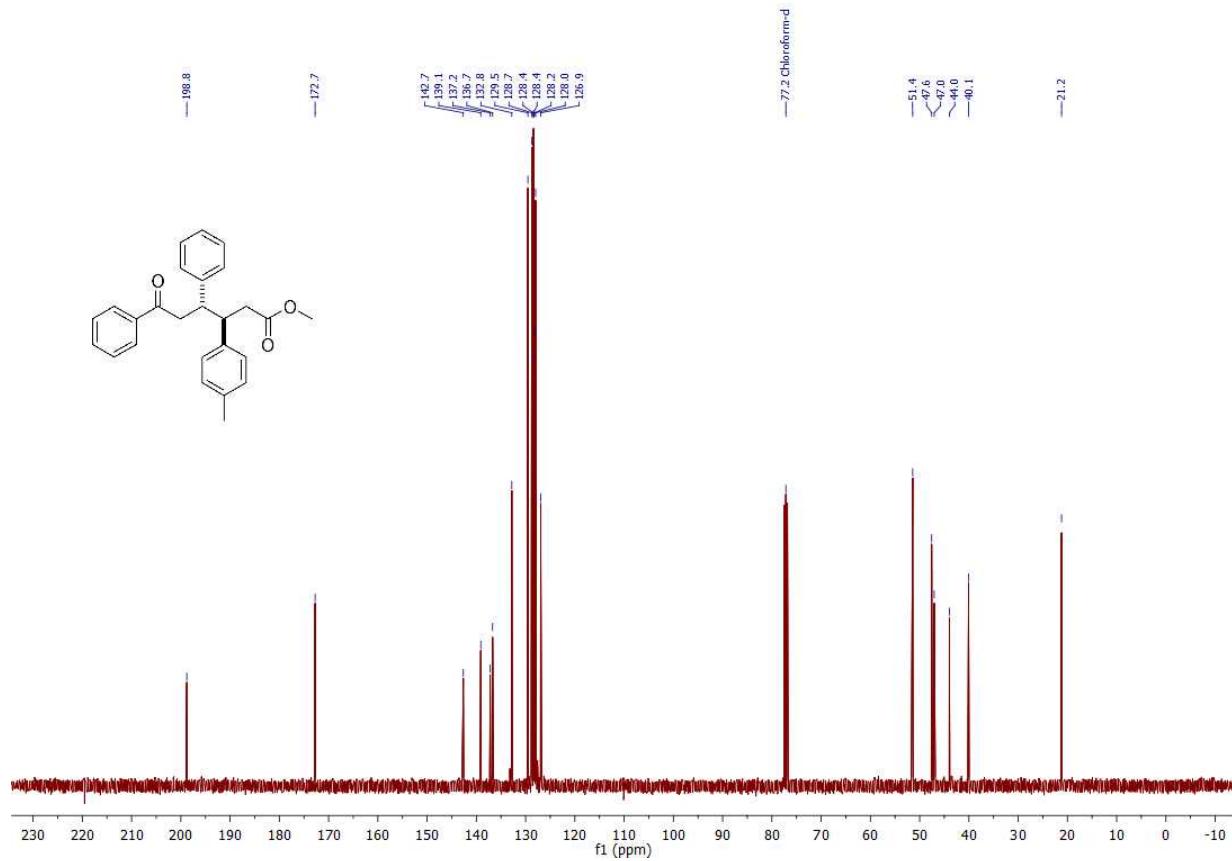


Figure S34. ^{13}C NMR of Methyl-6-oxo-4,6-diphenyl-3-(p-tolyl)hexanoate (CDCl_3).

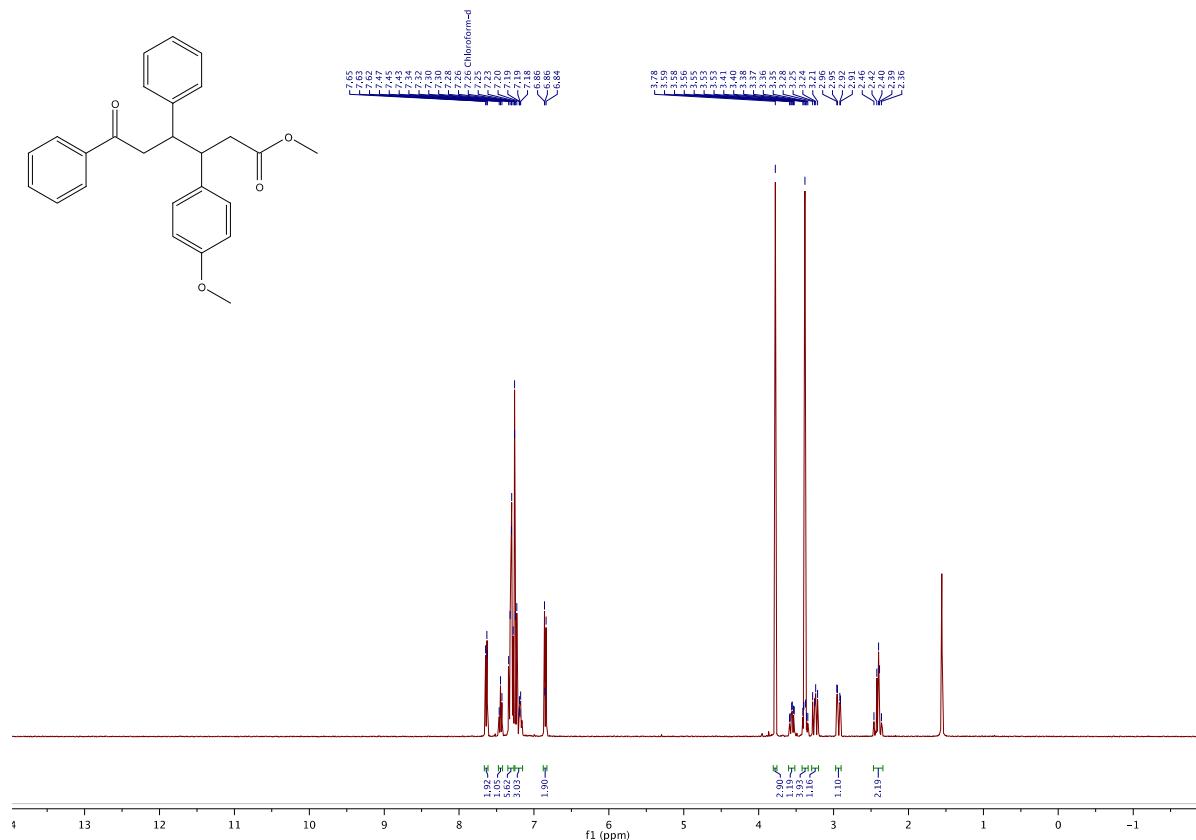


Figure S35. ^1H NMR of Methyl-3-(4-methoxyphenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

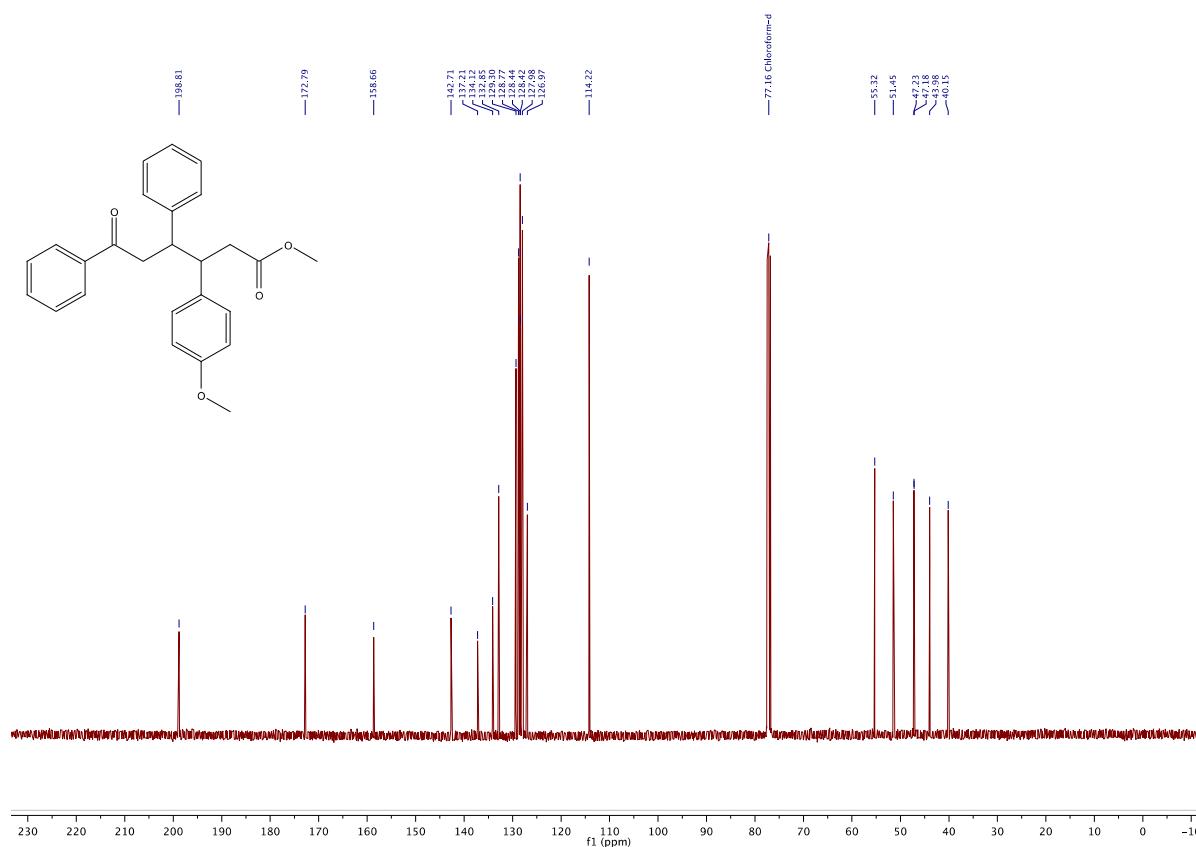


Figure S36. ^{13}C NMR of Methyl-3-(4-methoxyphenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

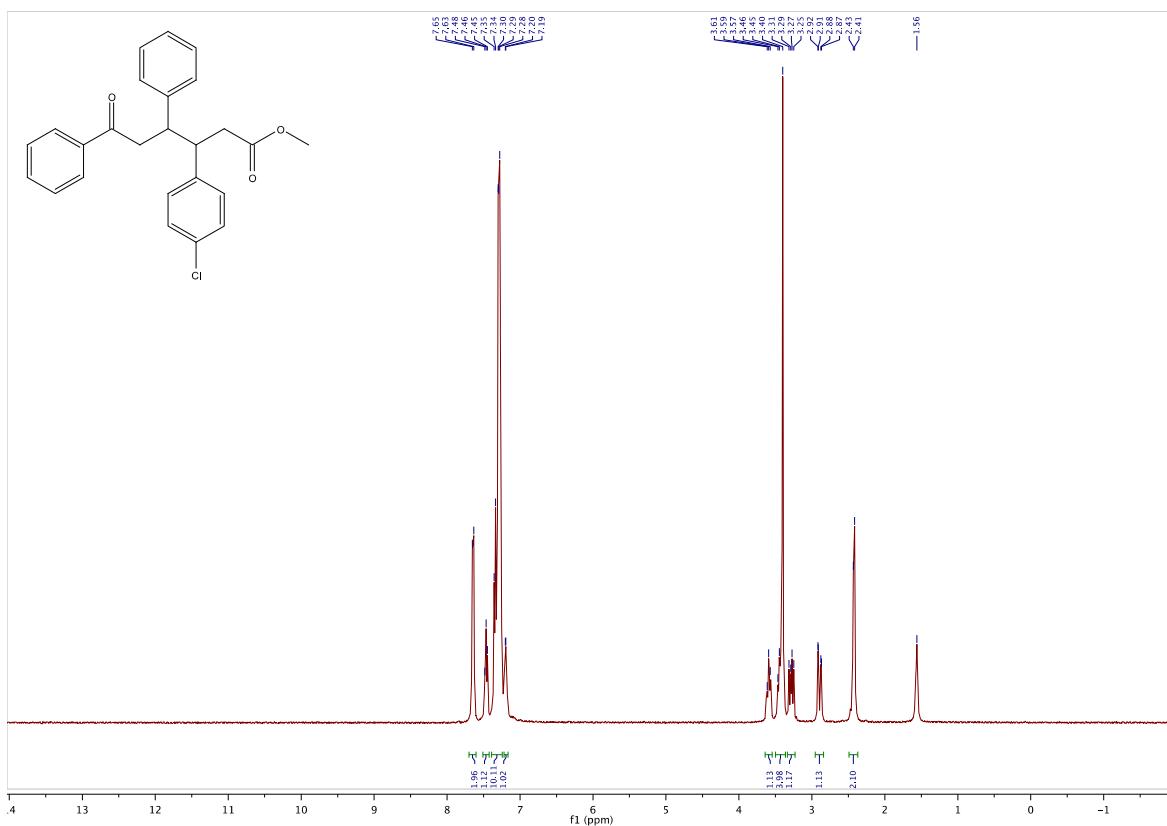


Figure S37. ^1H NMR of Methyl-3-(4-chlorophenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

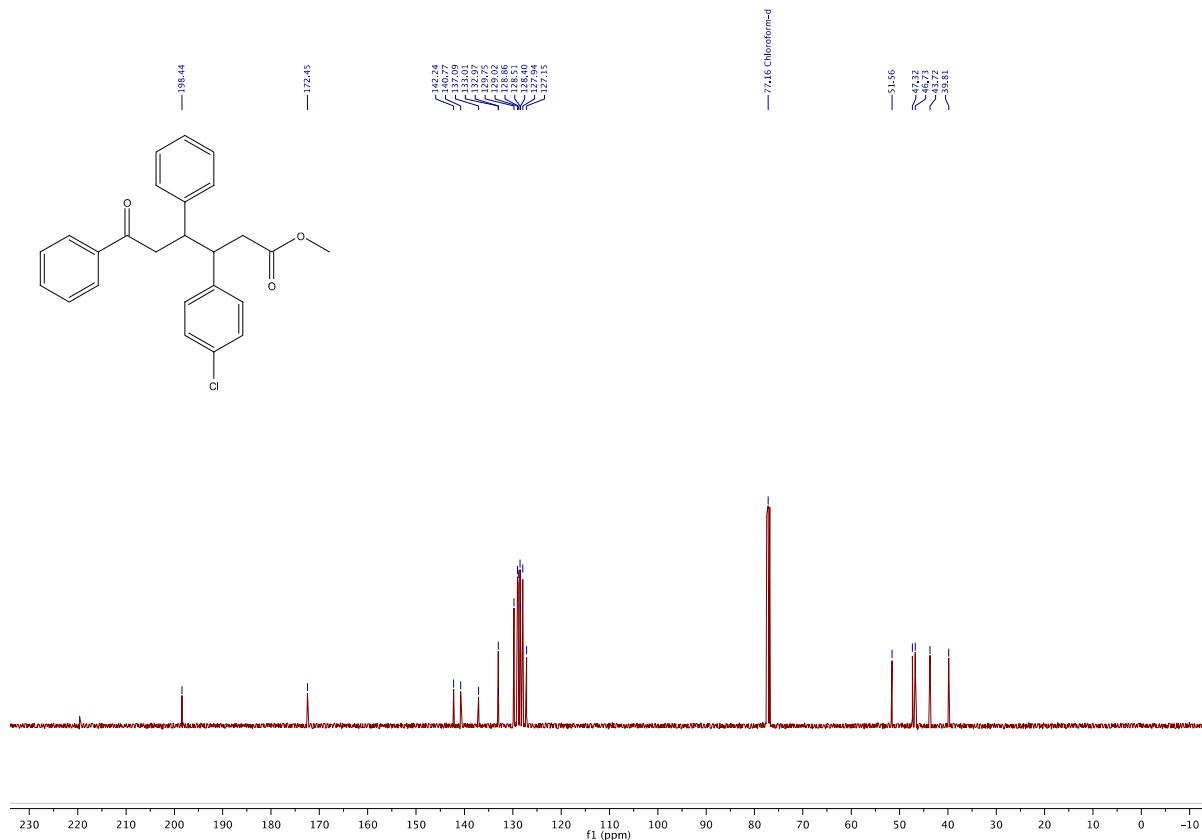


Figure S38. ^{13}C NMR of Methyl-3-(4-chlorophenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

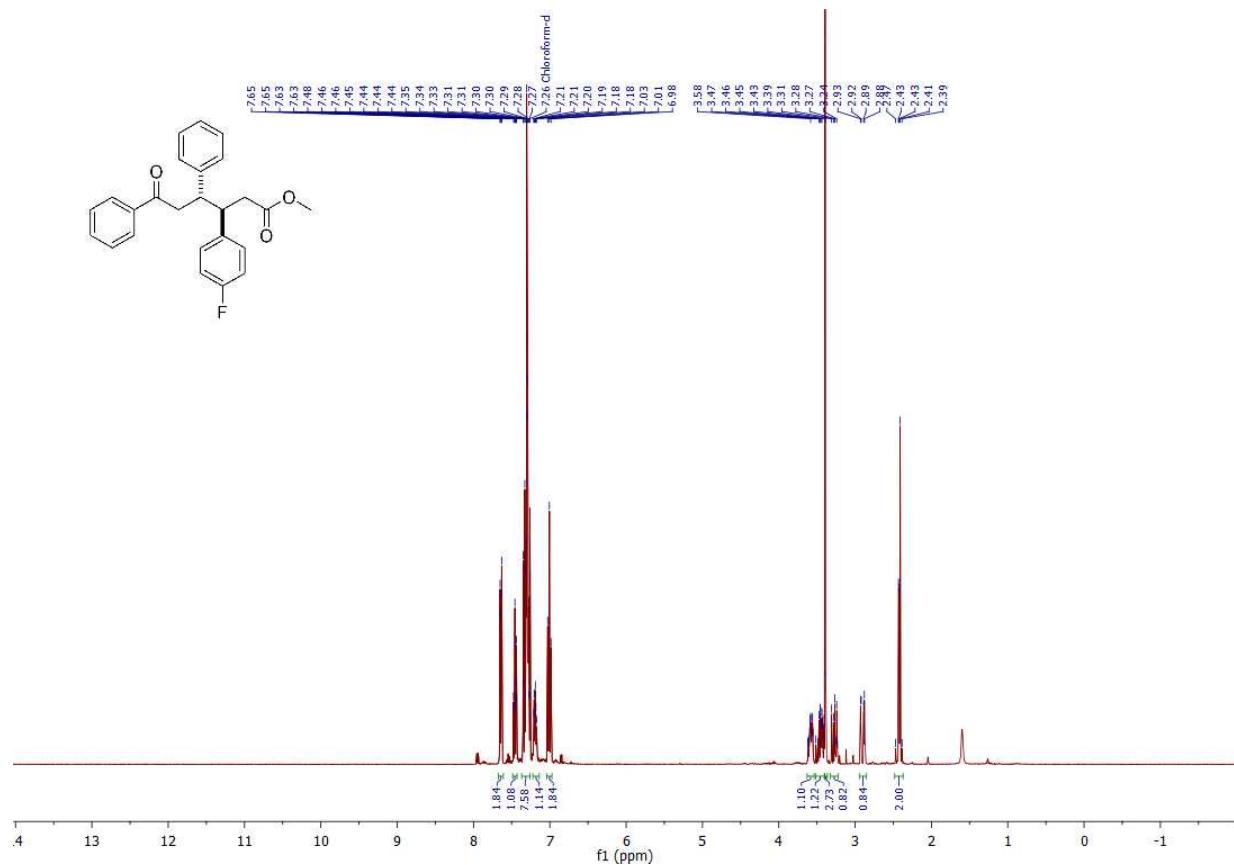


Figure S39. ^1H NMR of Methyl-3-(4-fluorophenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

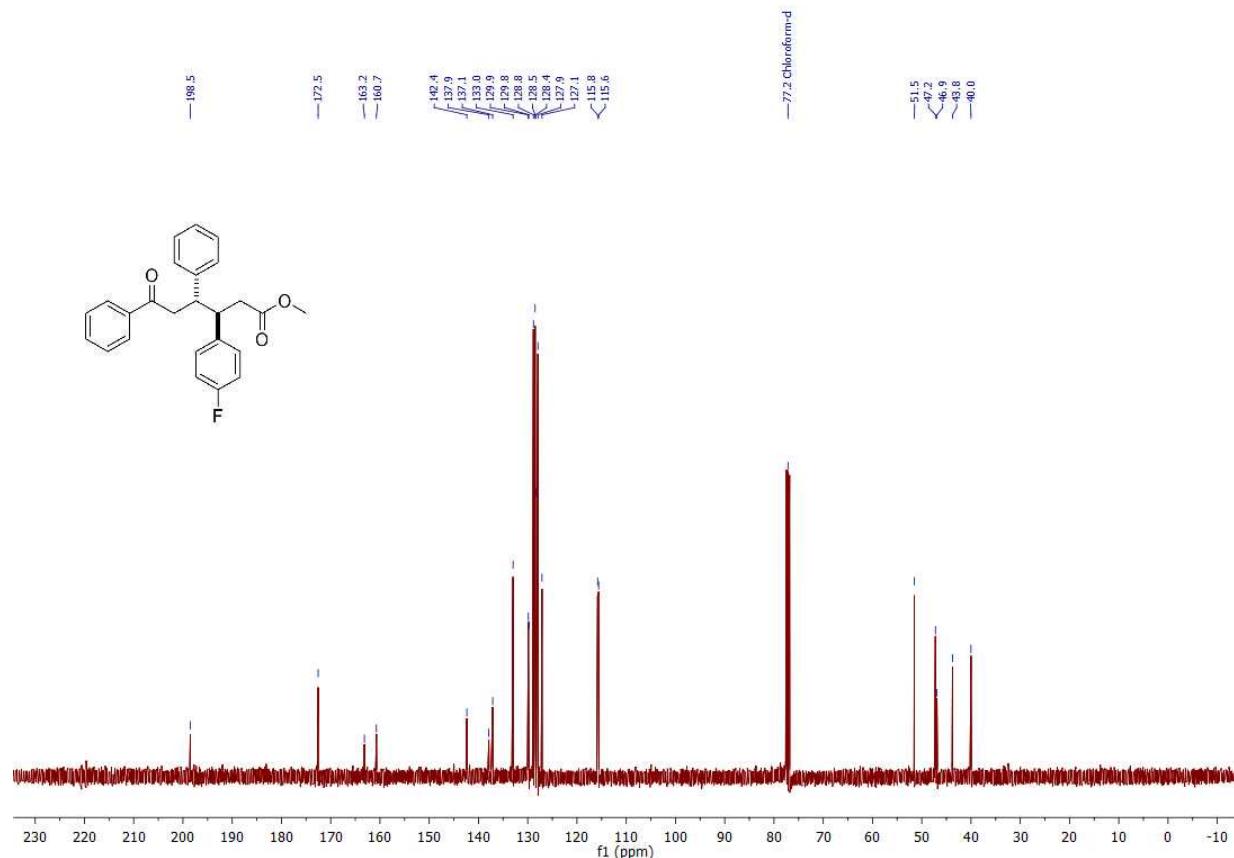


Figure S40. ^{13}C NMR of Methyl-3-(4-fluorophenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

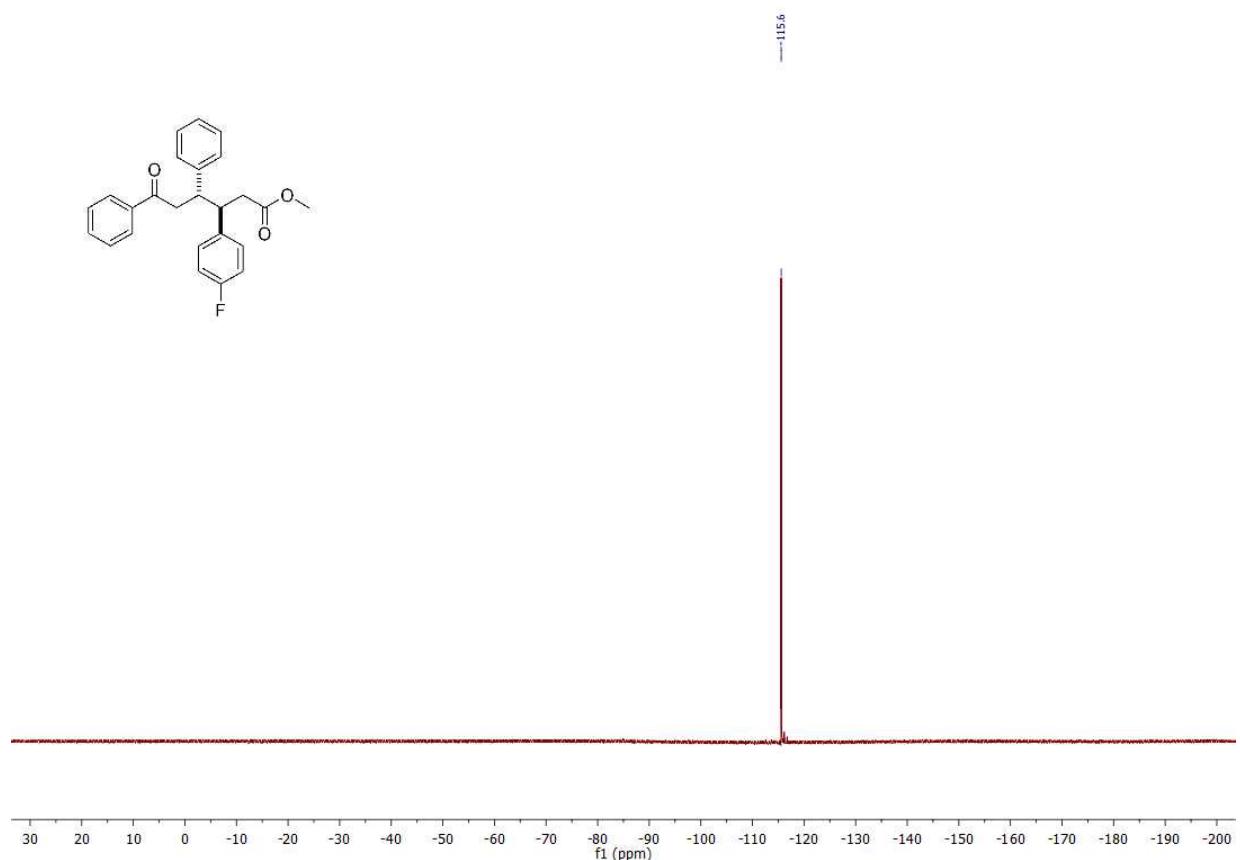


Figure S41. ^{19}F NMR of Methyl-3-(4-fluorophenyl)-6-oxo-4,6-diphenylhexanoate (CDCl_3).

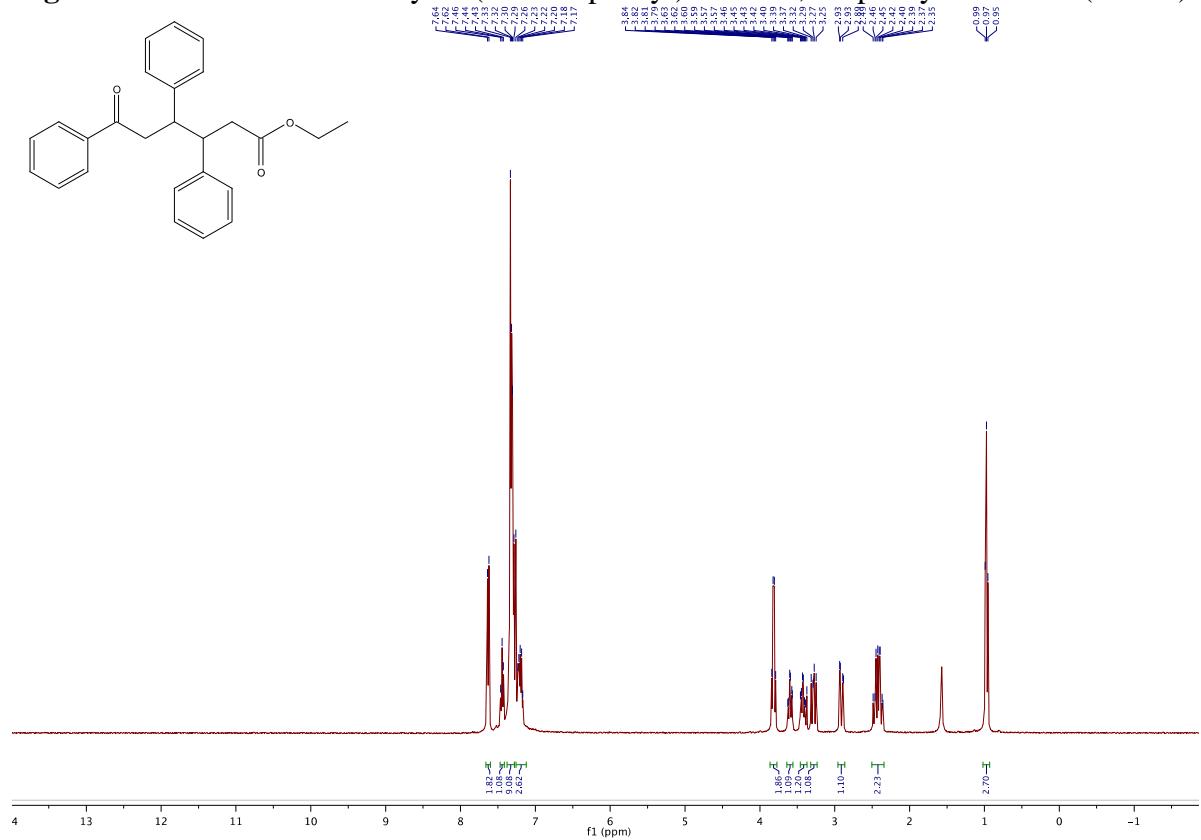


Figure S42. ^1H NMR of Ethyl-6-oxo-3,4,6-triphenylhexanoate (CDCl_3).

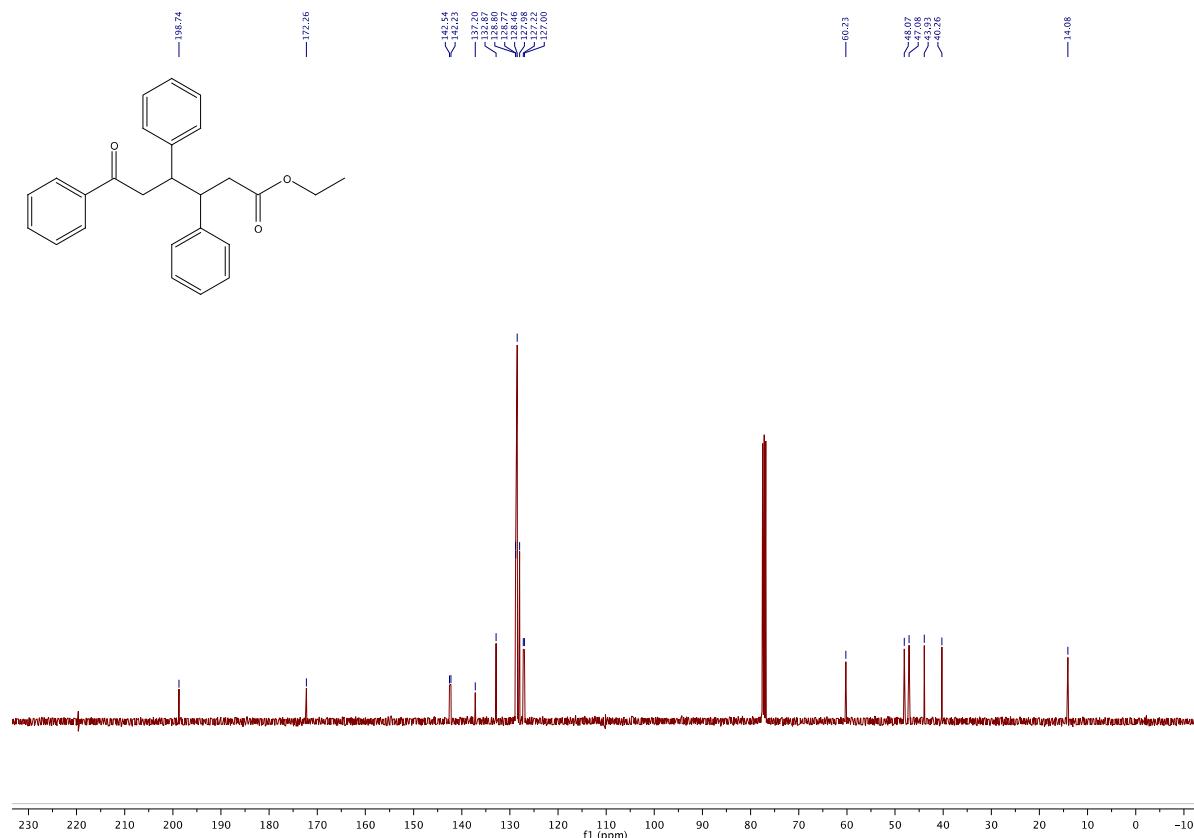


Figure S43. ¹³C NMR of Ethyl-6-oxo-3,4,6-triphenylhexanoate (CDCl₃).

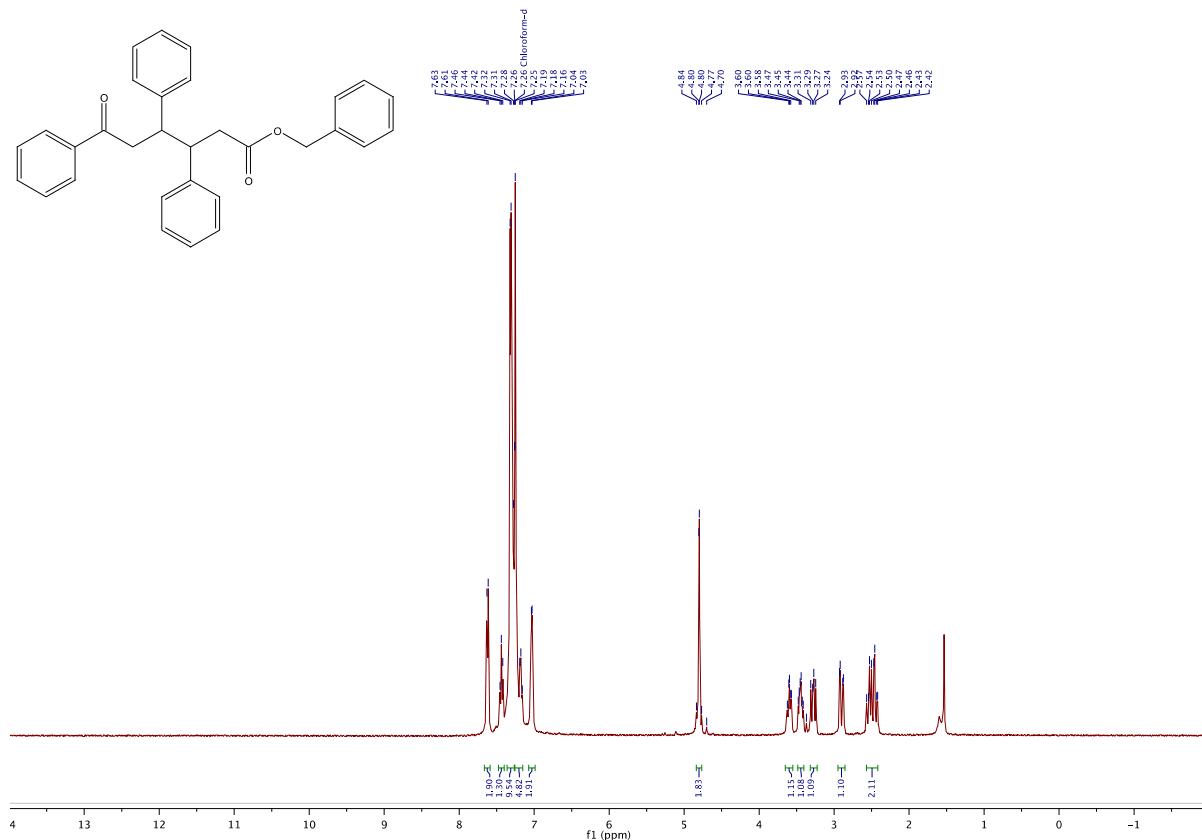


Figure S44. ¹H NMR of Benzyl-6-oxo-3,4,6-triphenylhexanoate (CDCl₃).

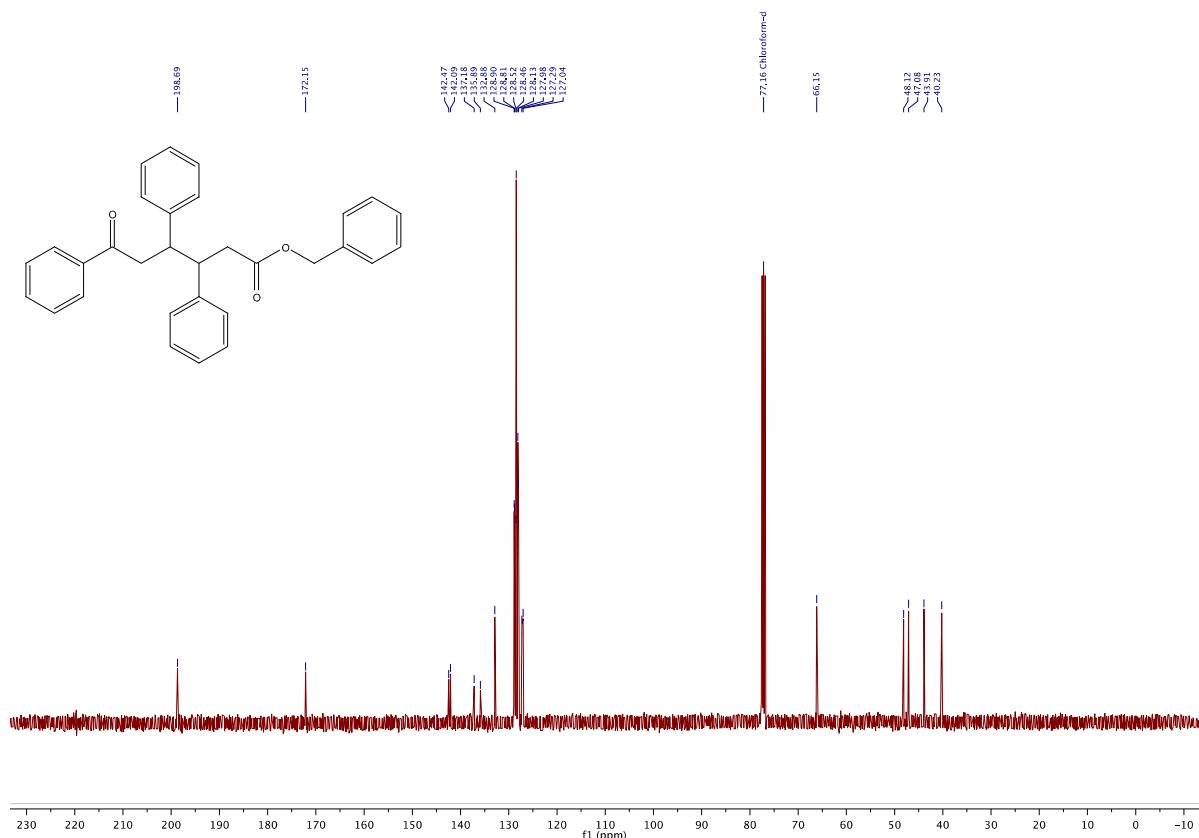


Figure S45. ^{13}C NMR of Benzyl-6-oxo-3,4,6-triphenylhexanoate (CDCl_3).

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