

Supplementary Materials

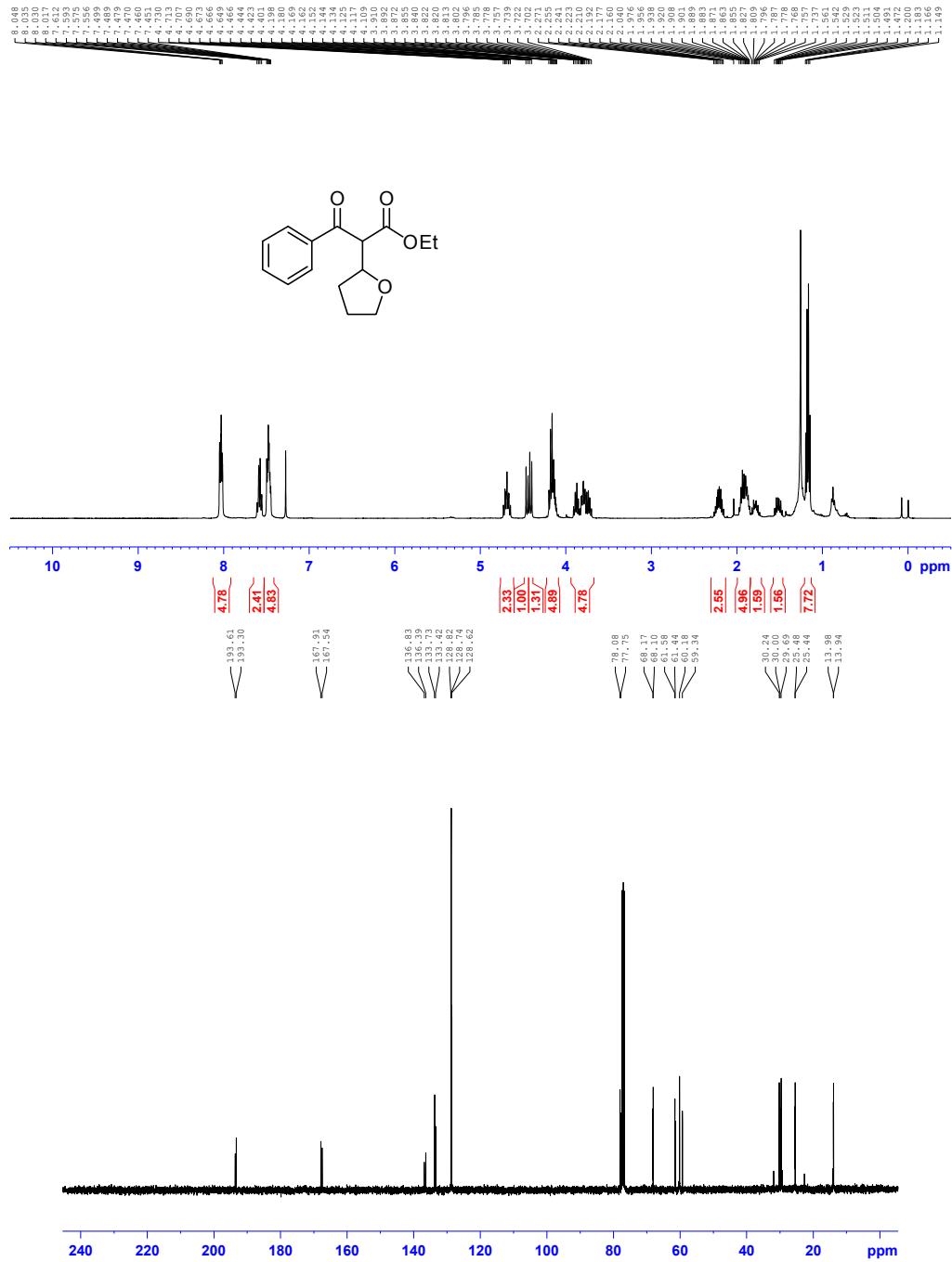


Figure S1. ¹H and ¹³C NMR spectra of ethyl 3-oxo-3-phenyl-2-(tetrahydrofuran-2-yl) propanoate (**4a**).

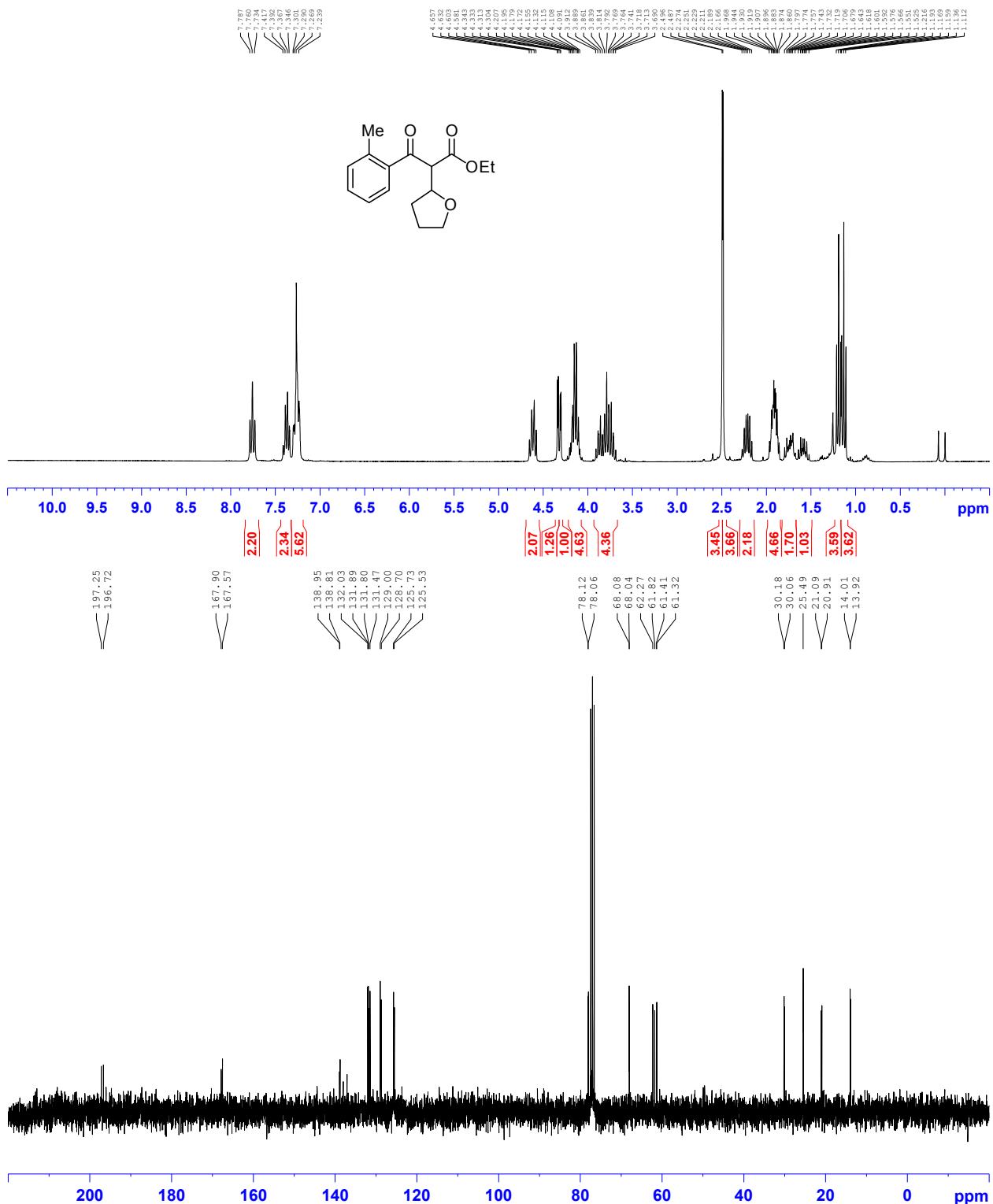


Figure S2. ^1H and ^{13}C NMR spectra of ethyl 3-oxo-2-(tetrahydrofuran-2-yl)-3-(o-tolyl)propanoate (**4b**).

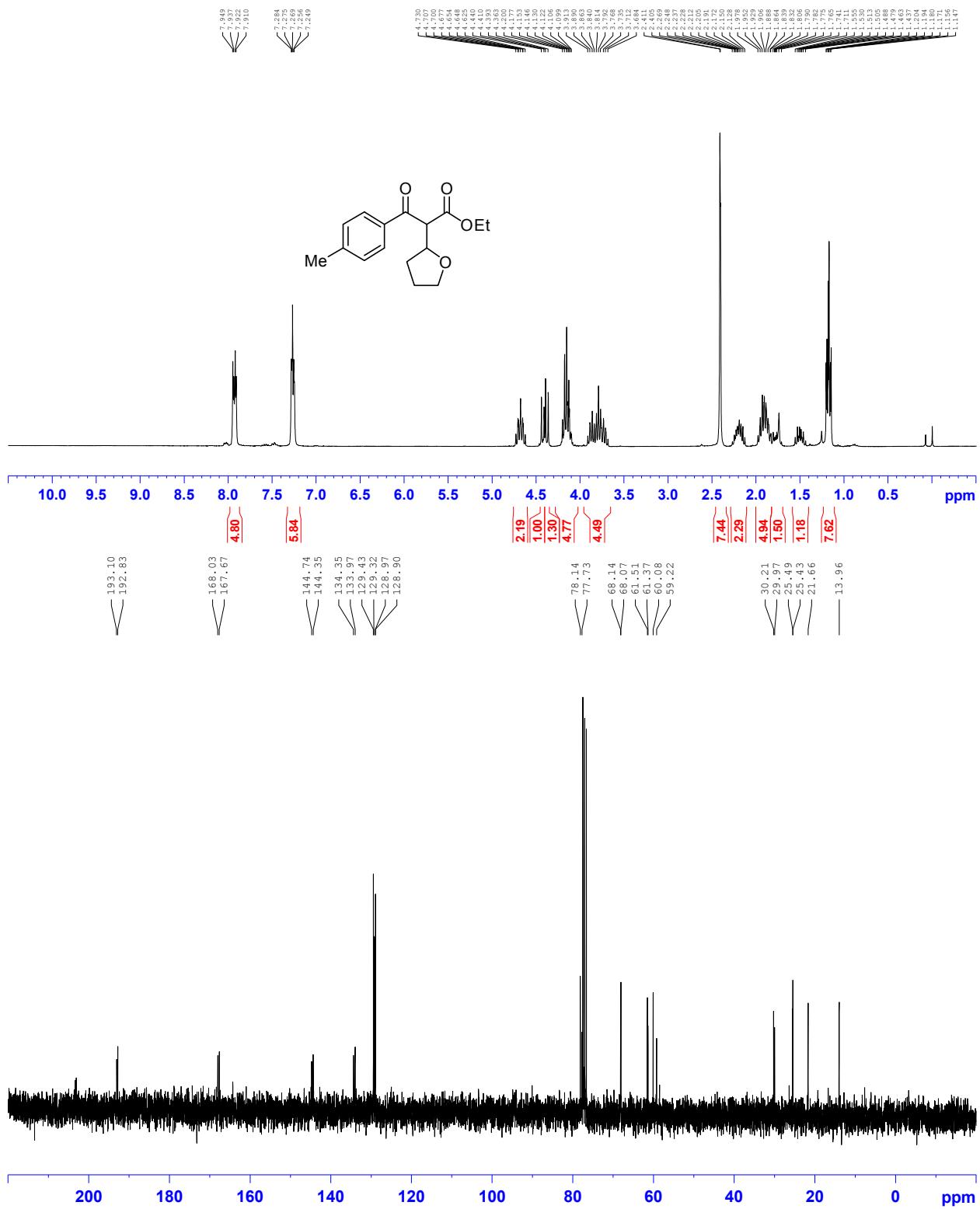


Figure S3. ^1H and ^{13}C NMR spectra of ethyl 3-oxo-2-(tetrahydrofuran-2-yl)-3-(p-tolyl)propanoate (**4c**).

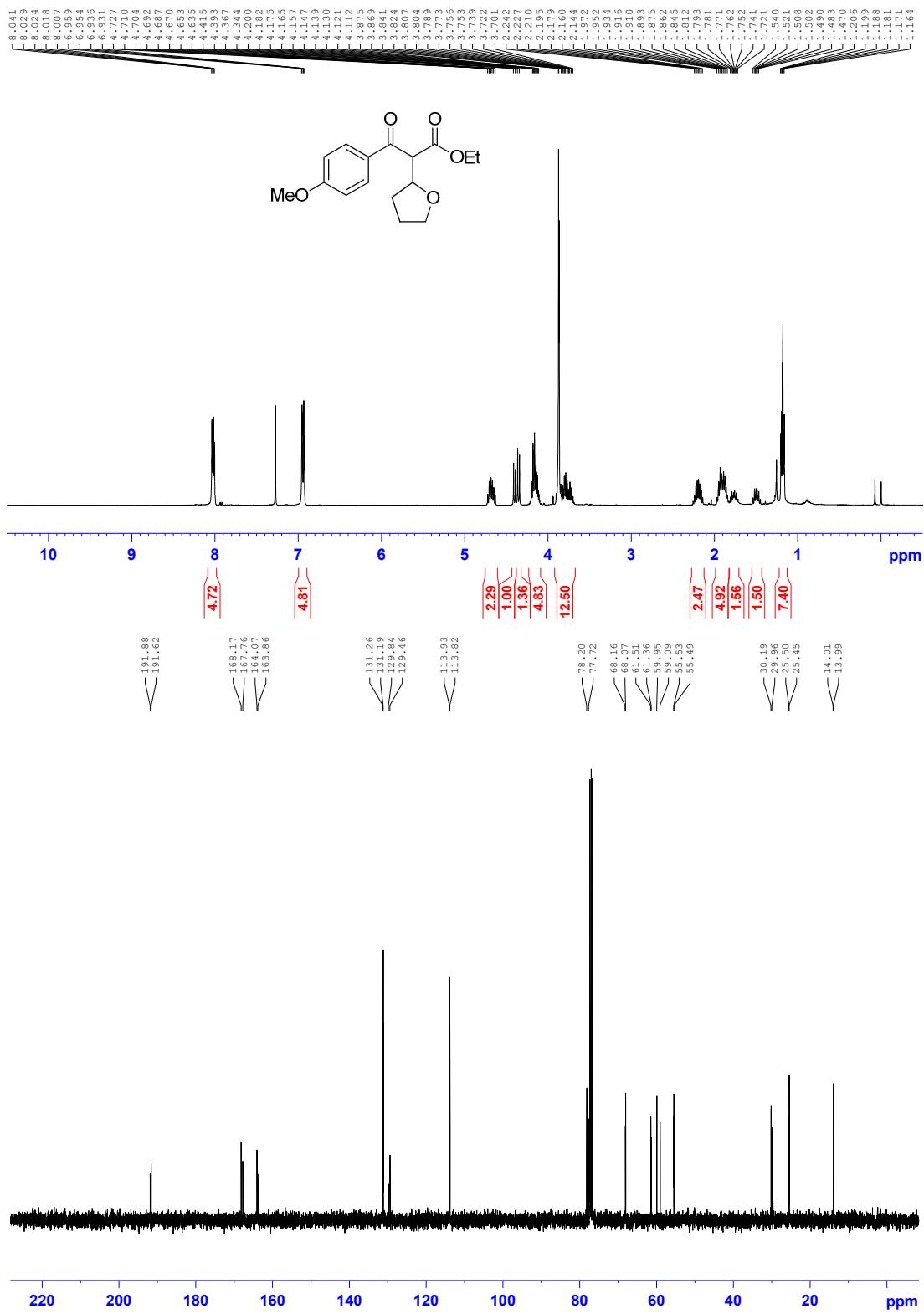


Figure S4. ^1H and ^{13}C NMR spectra of ethyl 3-(4-methoxyphenyl)-3-oxo-2-(tetrahydrofuran-2-yl)propanoate (**4d**).

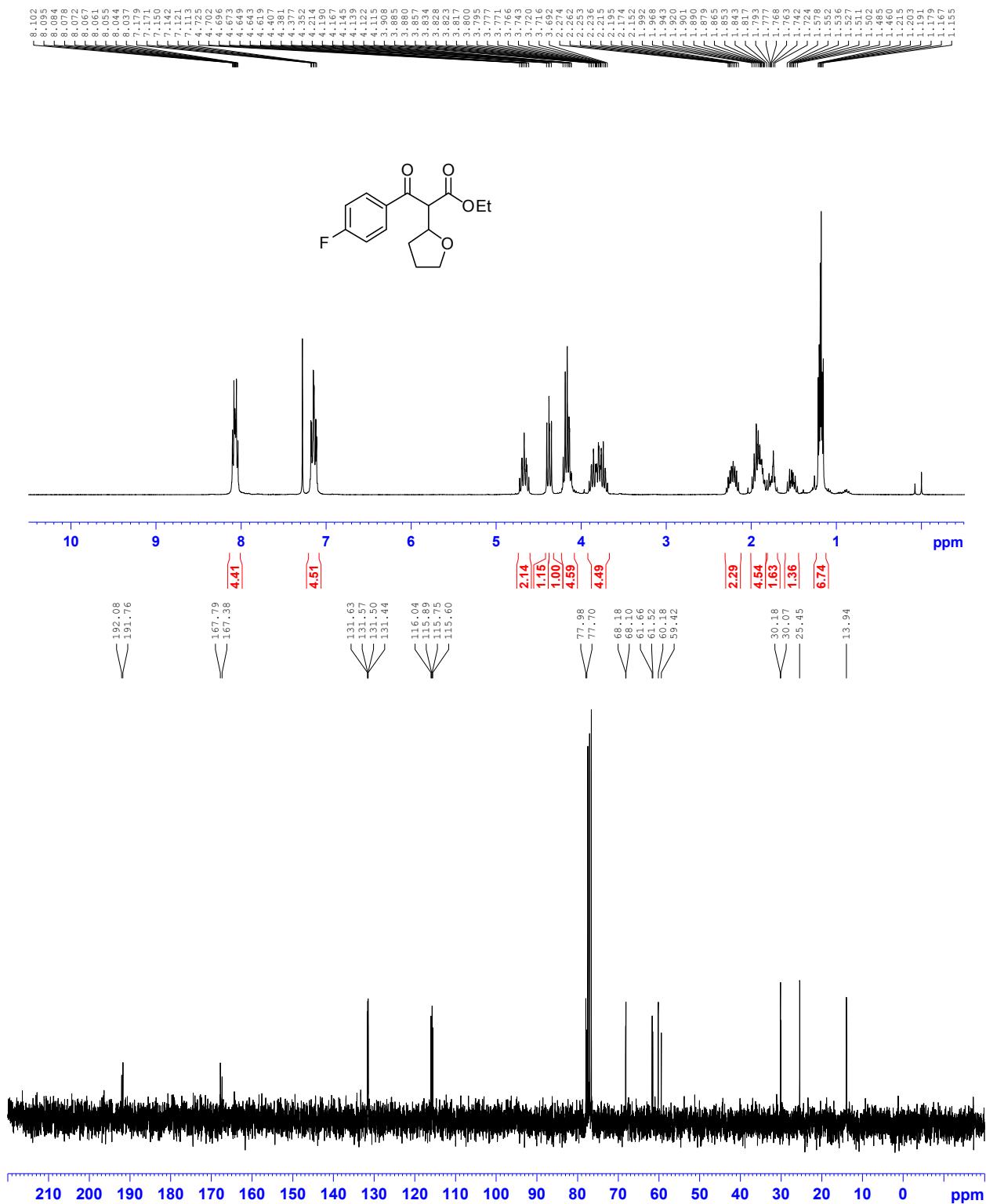


Figure S5. ^1H and ^{13}C NMR spectra of ethyl 3-(4-fluorophenyl)-3-oxo-2-(tetrahydrofuran-2-yl)propanoate (**4e**).

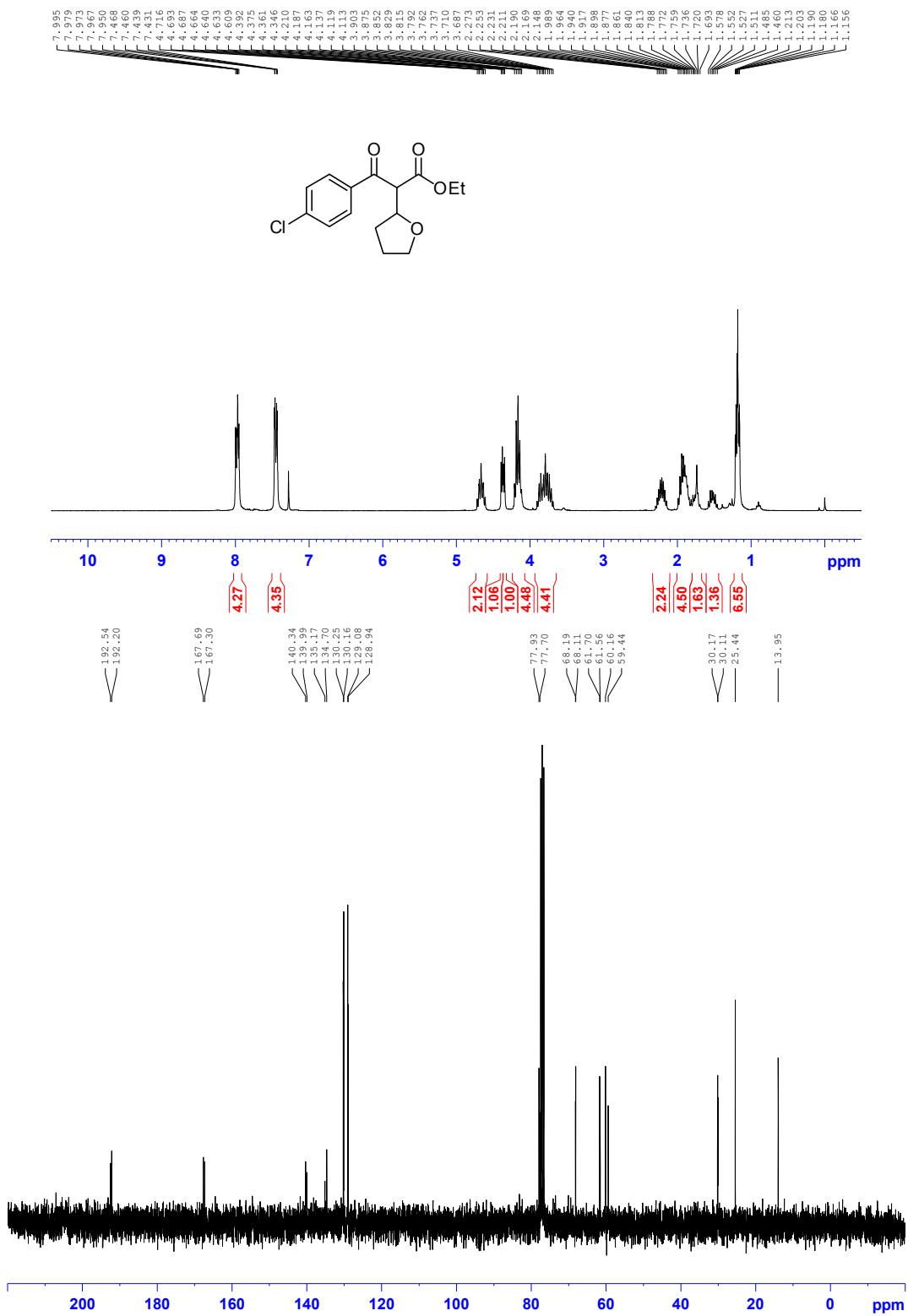


Figure S6. ^1H and ^{13}C NMR spectra of ethyl 3-(4-chlorophenyl)-3-oxo-2-(tetrahydrofuran-2-yl)propanoate (**4f**).

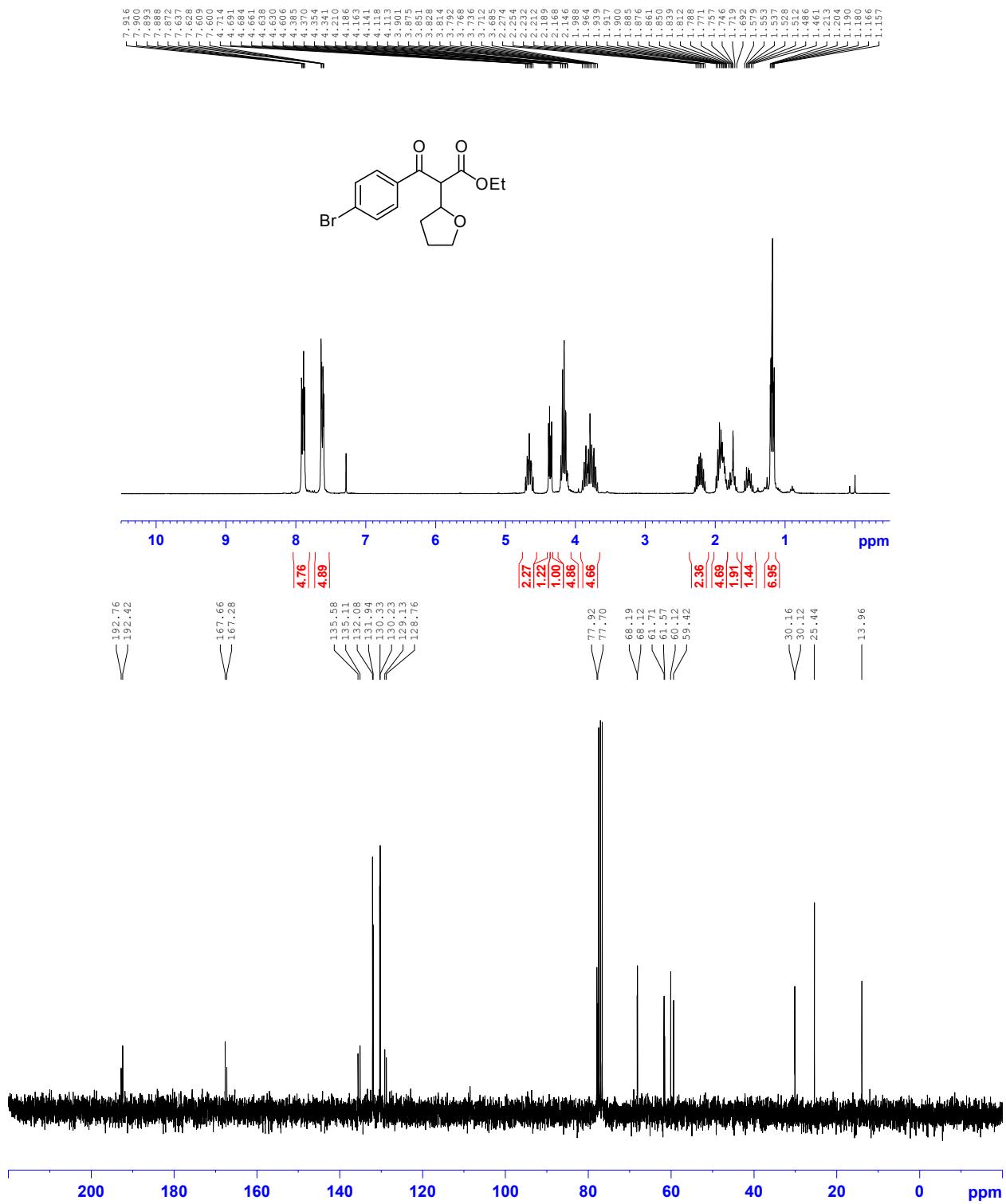


Figure S7. ^1H and ^{13}C NMR spectra of ethyl 3-(4-bromophenyl)-3-oxo-2-(tetrahydrofuran-2-yl)propanoate (**4g**).

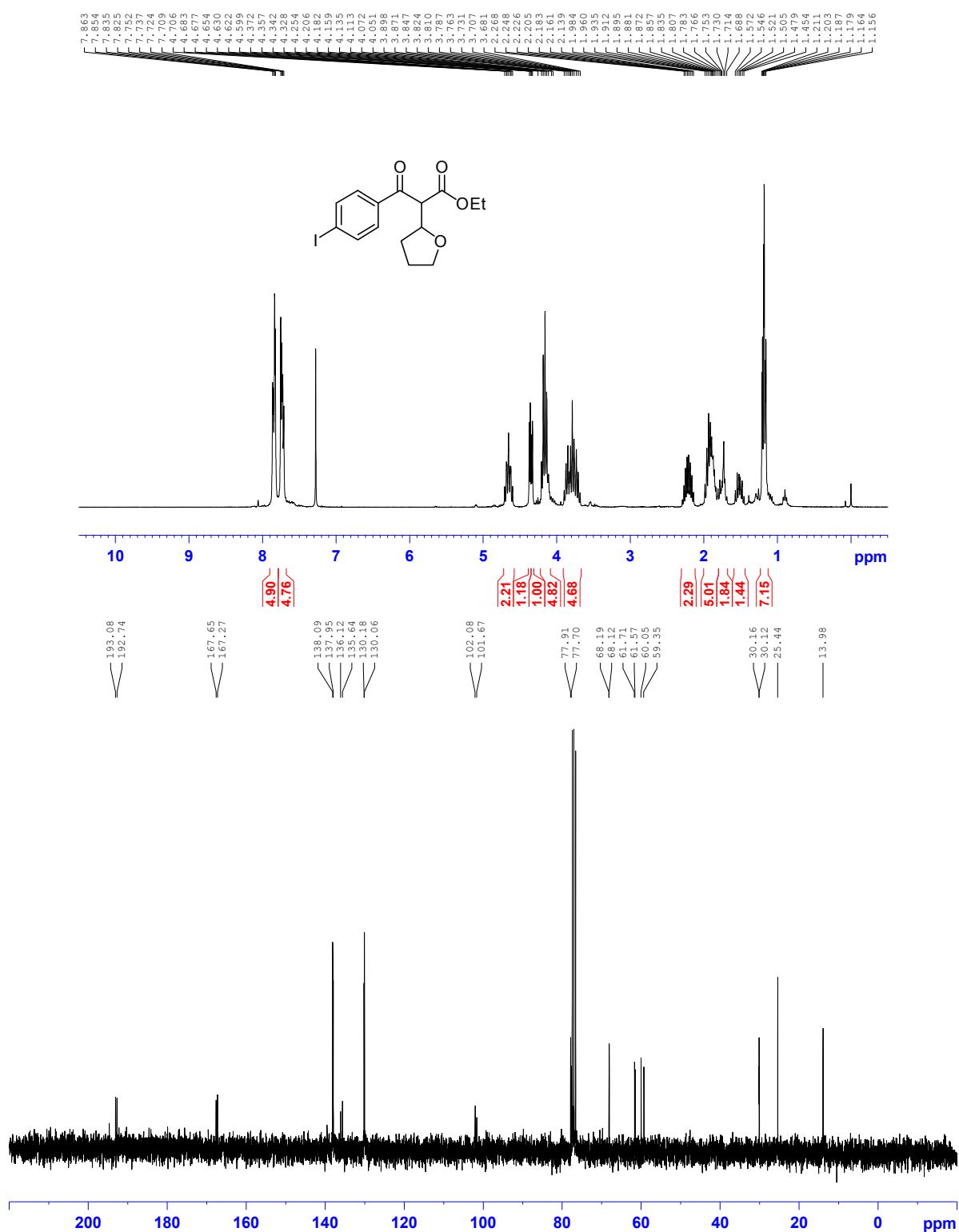


Figure S8. ^1H and ^{13}C NMR spectra of ethyl 3-(4-iodophenyl)-3-oxo-2-(tetrahydrofuran-2-yl)propanoate (**4h**).

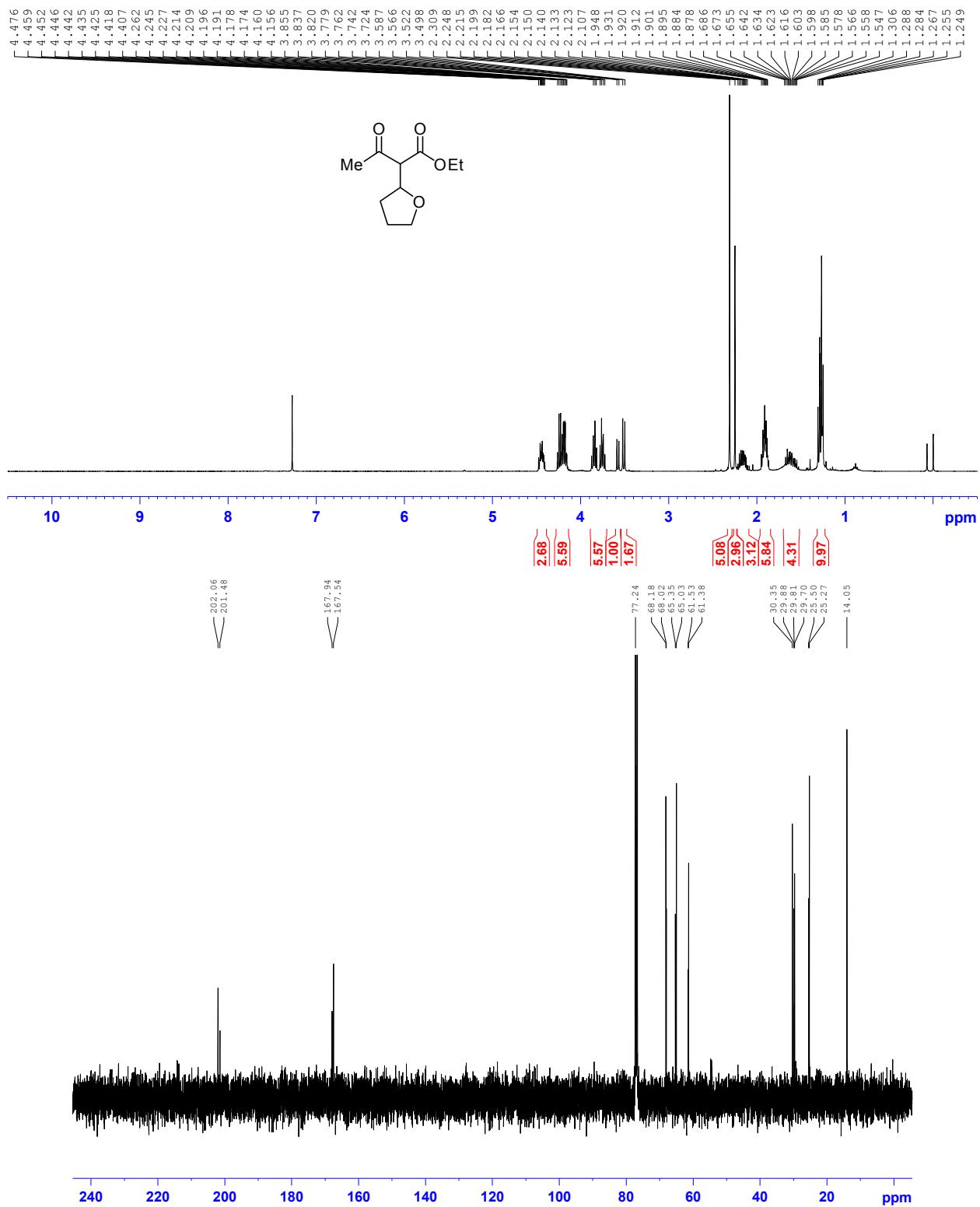


Figure S9. ^1H and ^{13}C NMR spectra of ethyl 3-oxo-2-(tetrahydrofuran-2-yl)butanoate (**4i**).

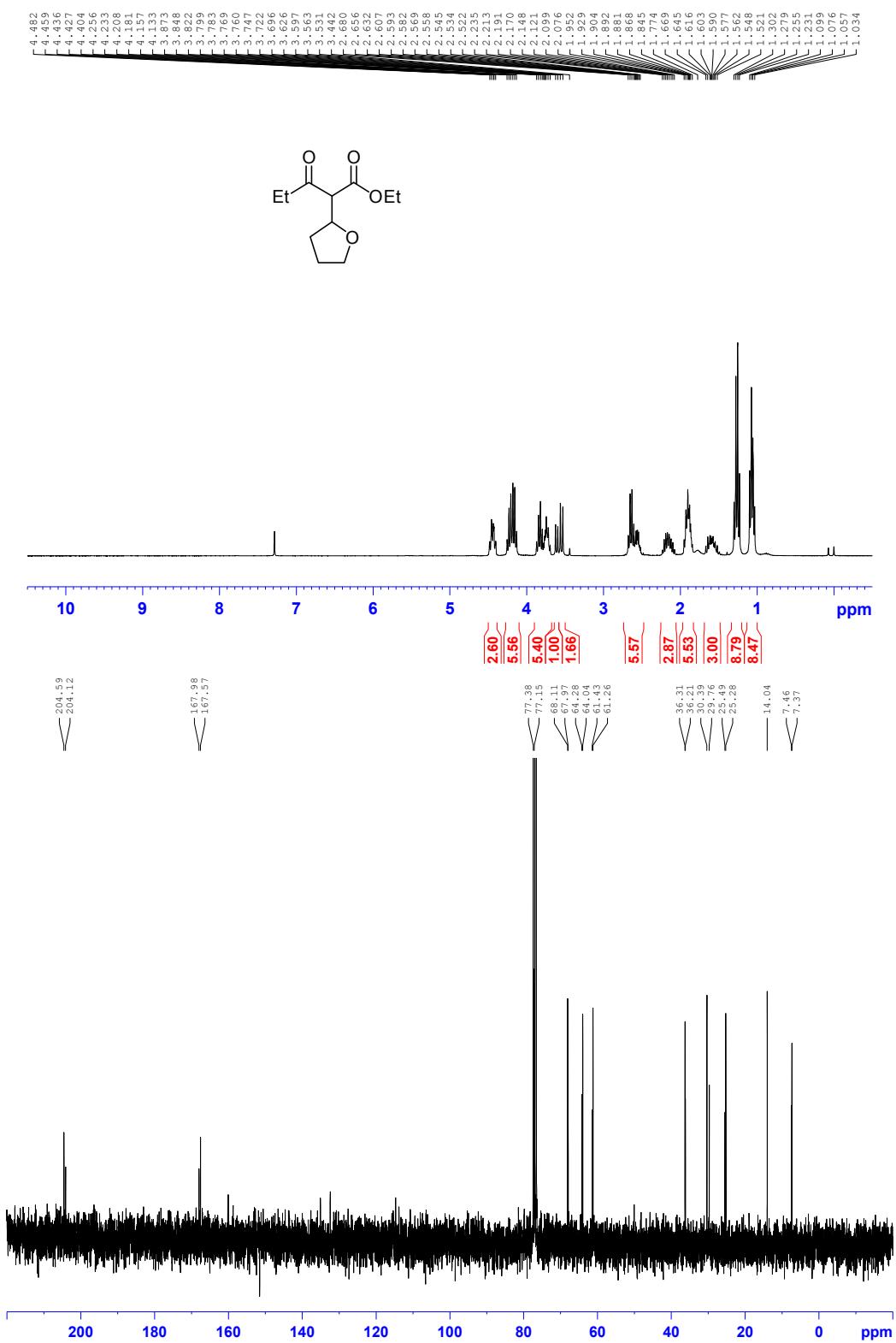


Figure S10. ^1H and ^{13}C NMR spectra of ethyl 3-oxo-2-(tetrahydrofuran-2-yl)pentanoate (**4j**).

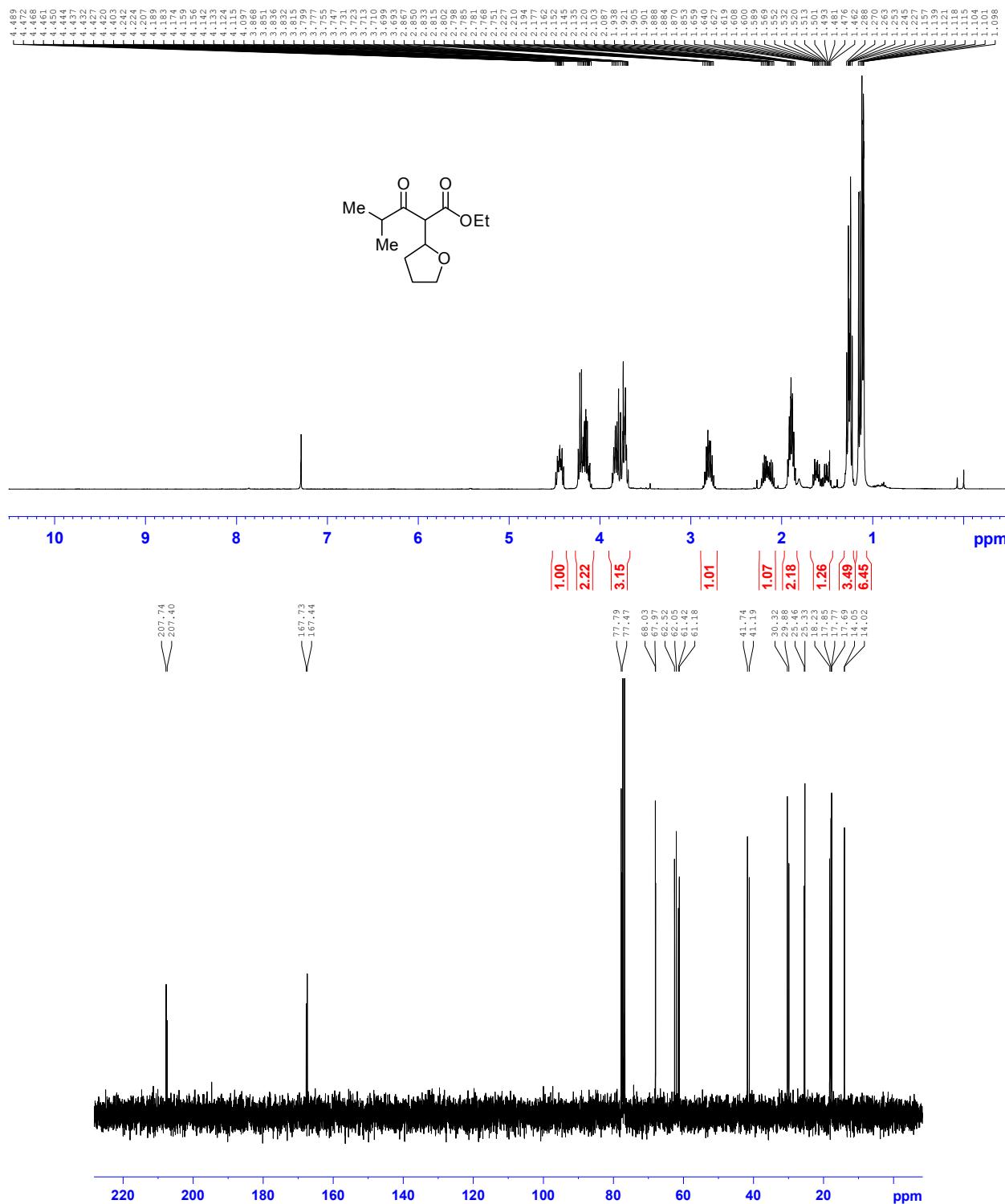


Figure S11. ^1H and ^{13}C NMR spectra of ethyl 4-methyl-3-oxo-2-(tetrahydrofuran-2-yl) pentanoate (**4k**).

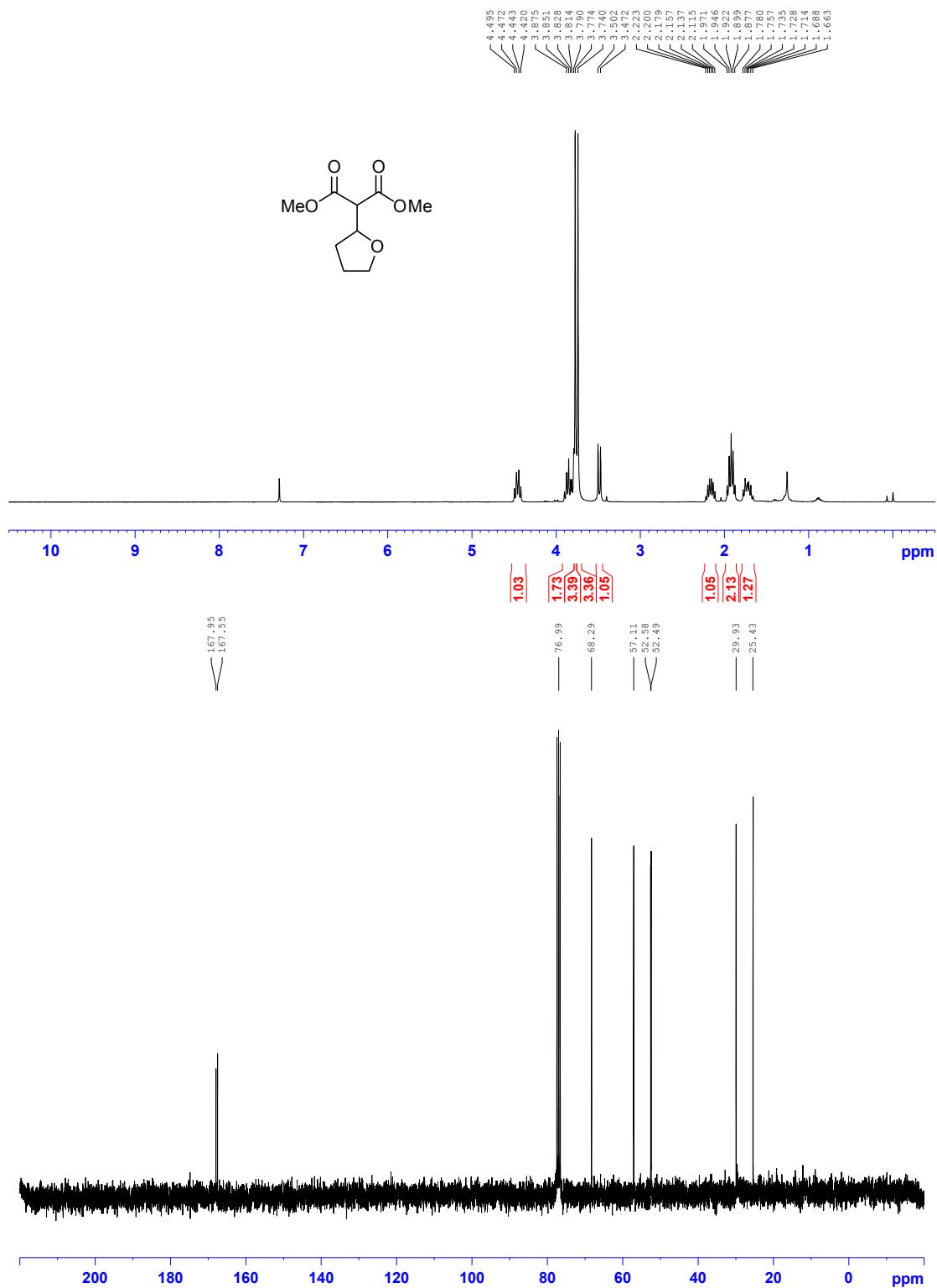


Figure S12. ^1H and ^{13}C NMR spectra of dimethyl 2-(tetrahydrofuran-2-yl)malonate (**4l**).

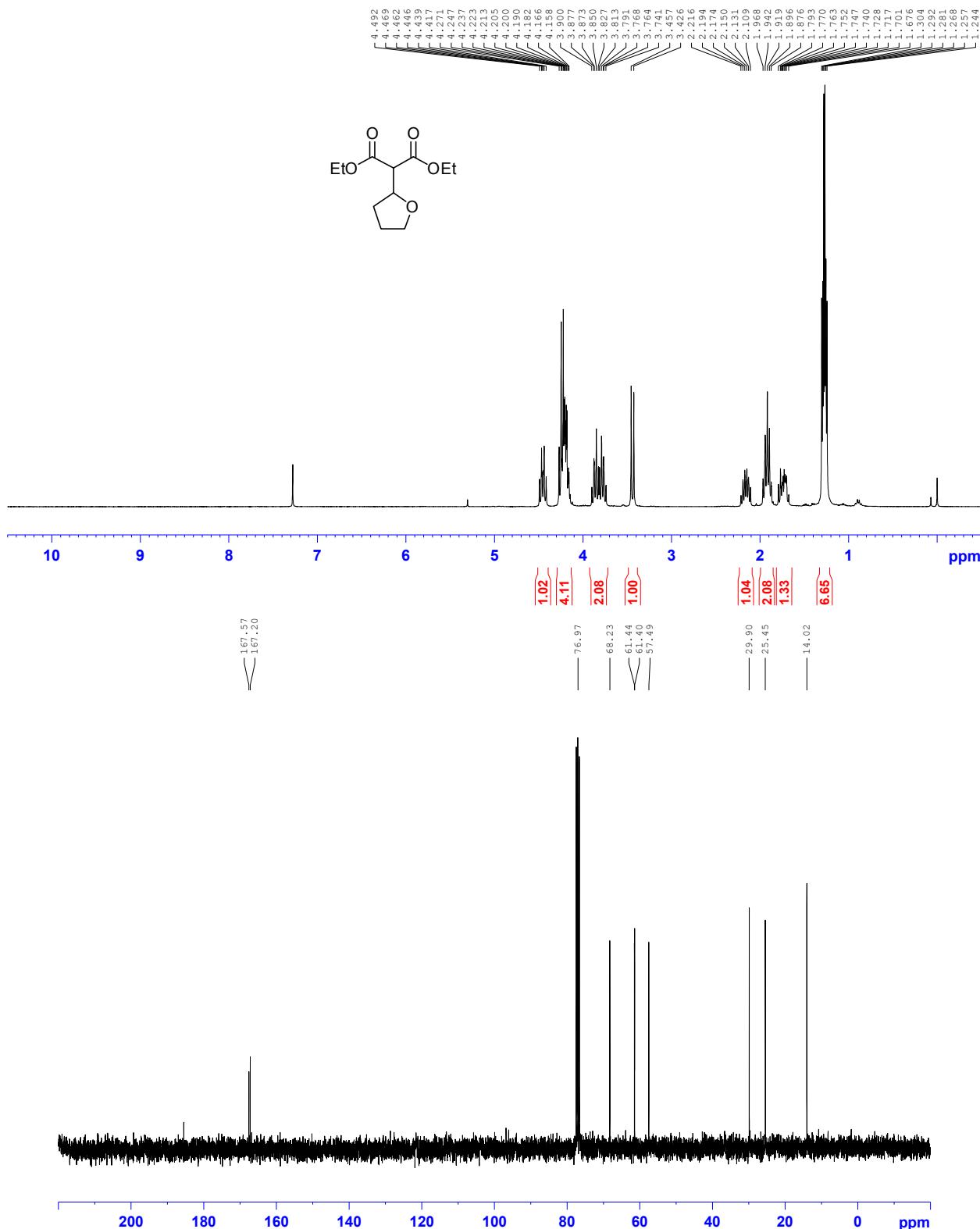


Figure S13. ¹H and ¹³C NMR spectra of diethyl 2-(tetrahydrofuran-2-yl)malonate (**4m**).

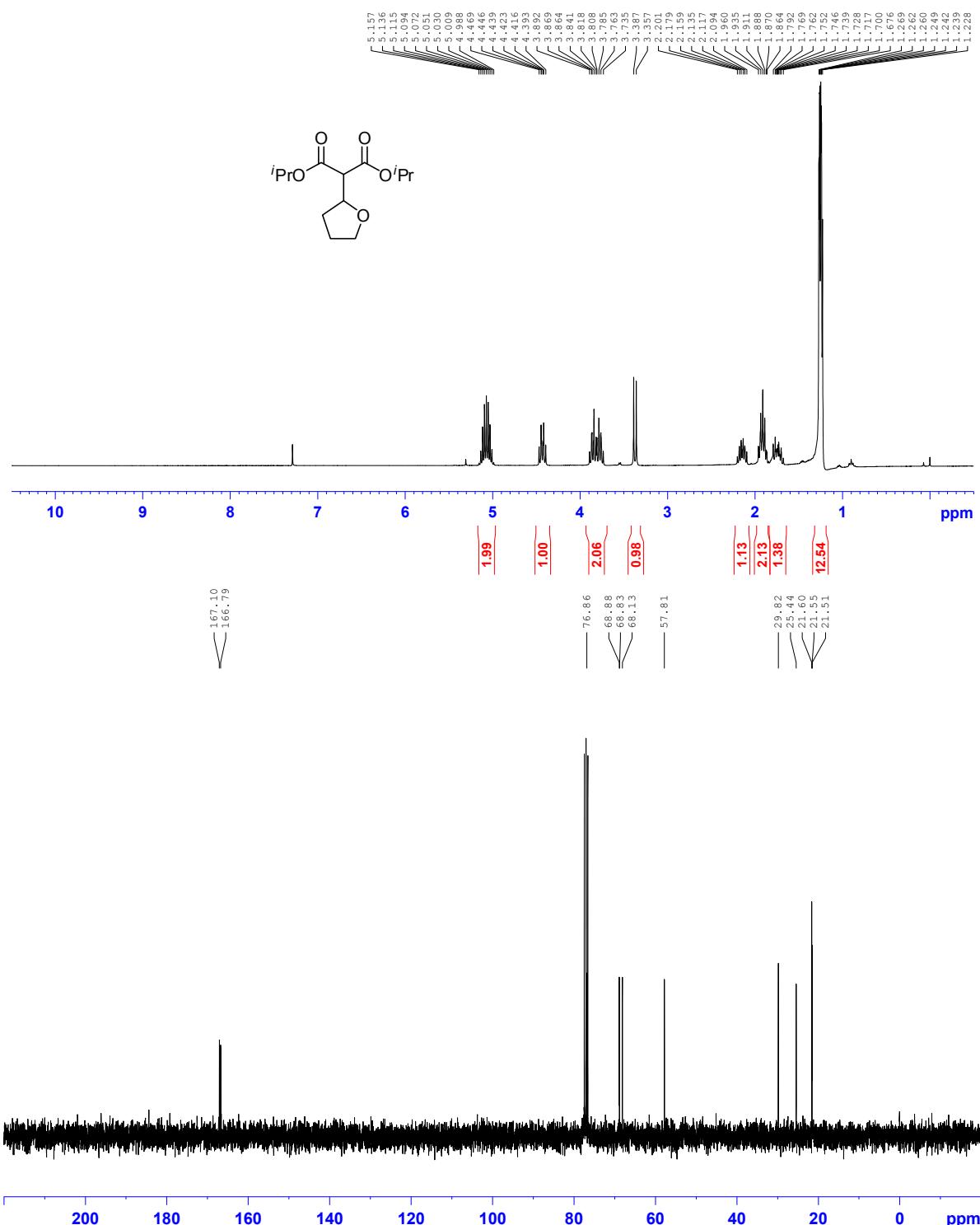


Figure S14. ^1H and ^{13}C NMR spectra of diisopropyl 2-(tetrahydrofuran-2-yl)malonate (**4n**).

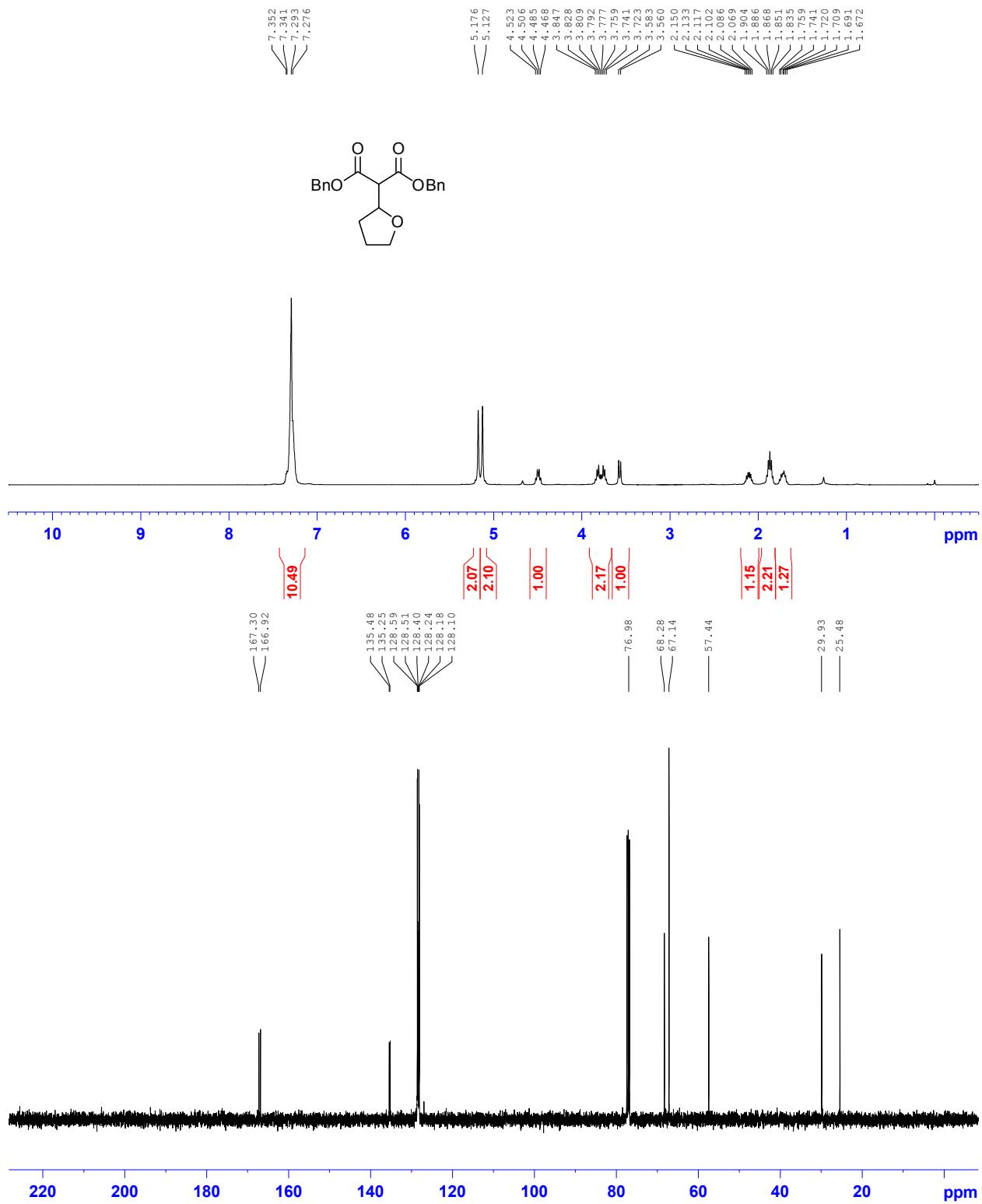


Figure S15. ^1H and ^{13}C NMR spectra of dibenzyl 2-(tetrahydrofuran-2-yl)malonate (**4o**).

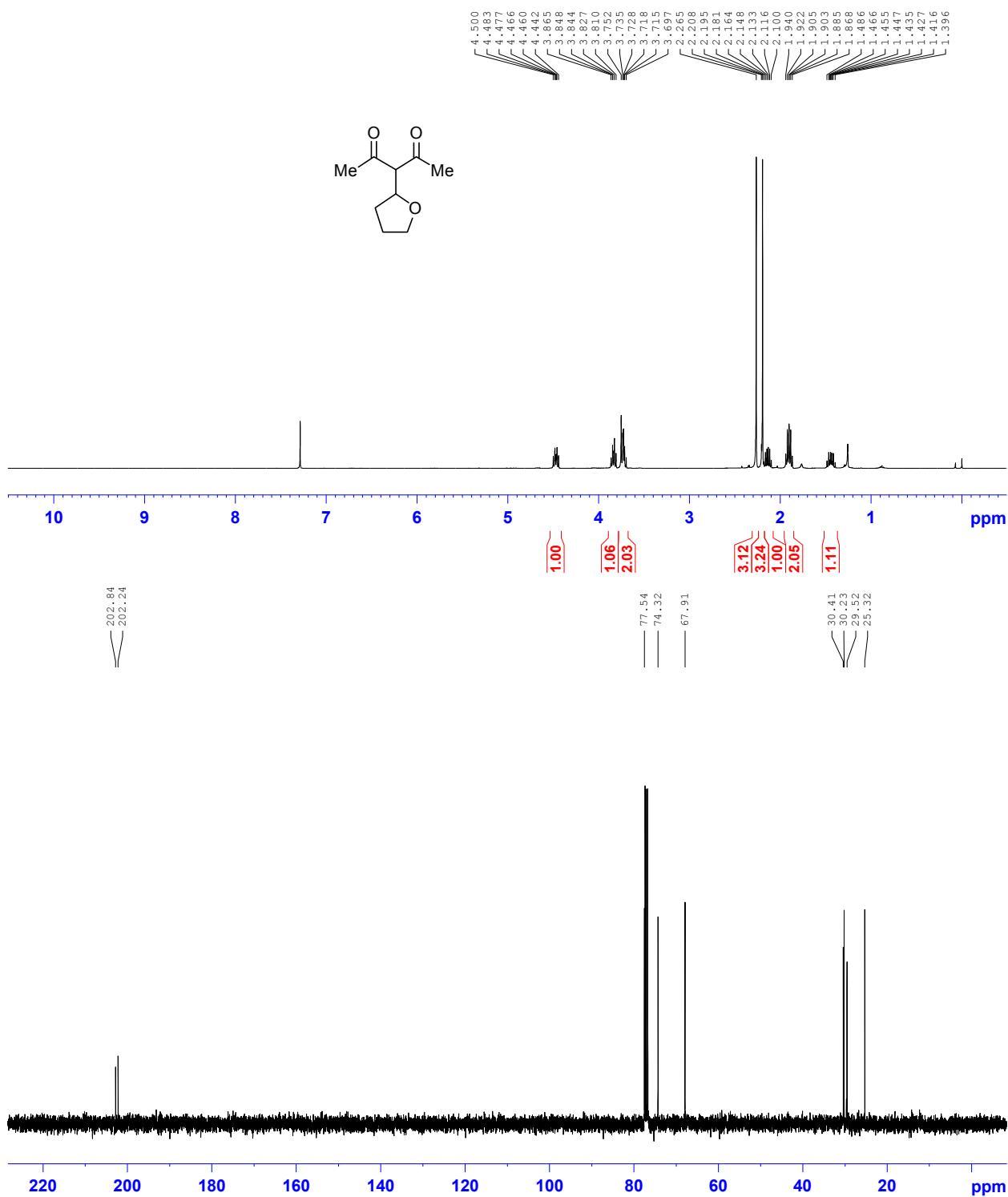


Figure S16. ^1H and ^{13}C NMR spectra of 3-(tetrahydrofuran-2-yl)pentane-2,4-dione (**4p**).

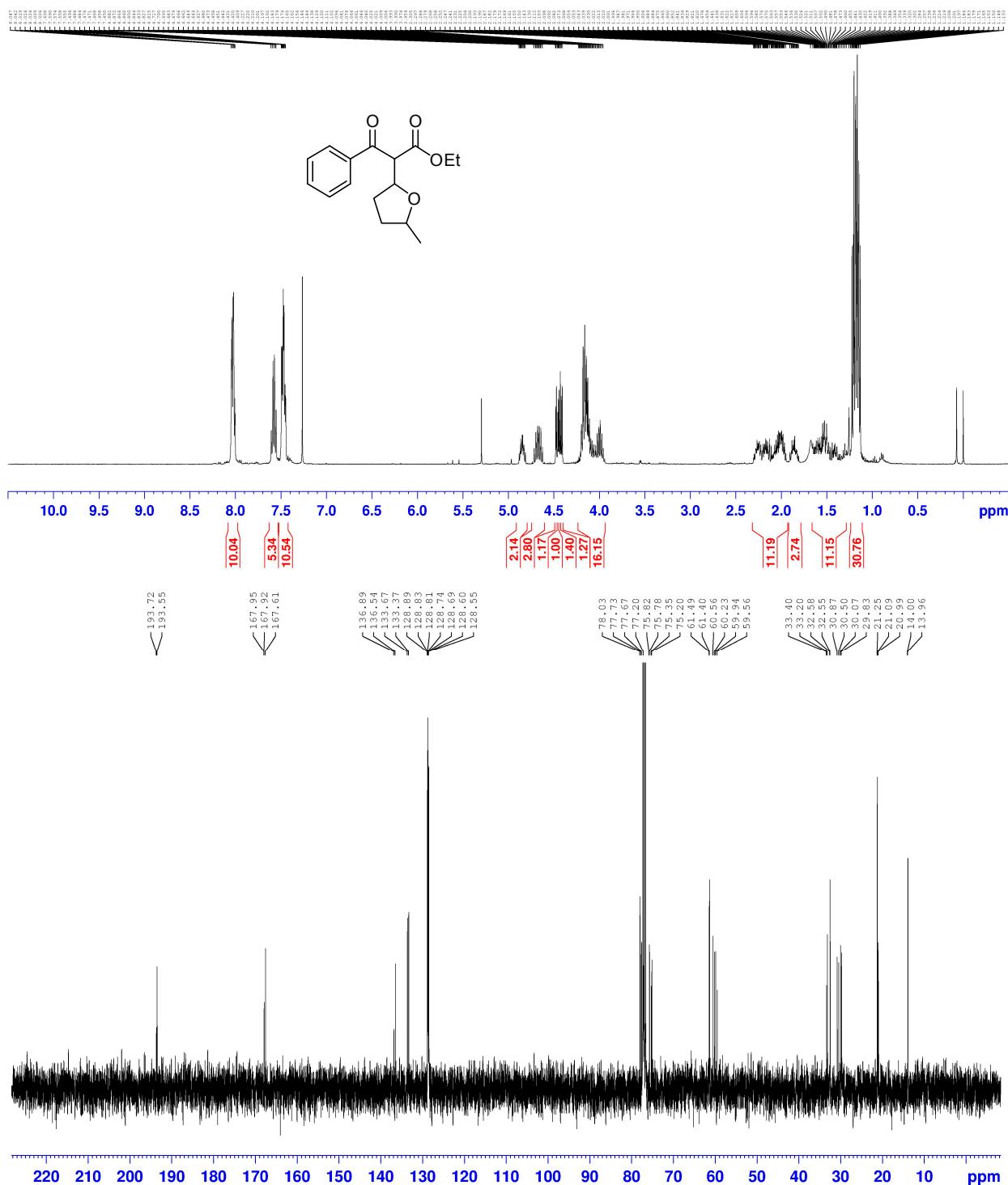


Figure S17. ¹H and ¹³C NMR spectra of ethyl 2-(5-methyltetrahydrofuran-2-yl)-3-oxo-3-phenylpropanoate (**4q**).

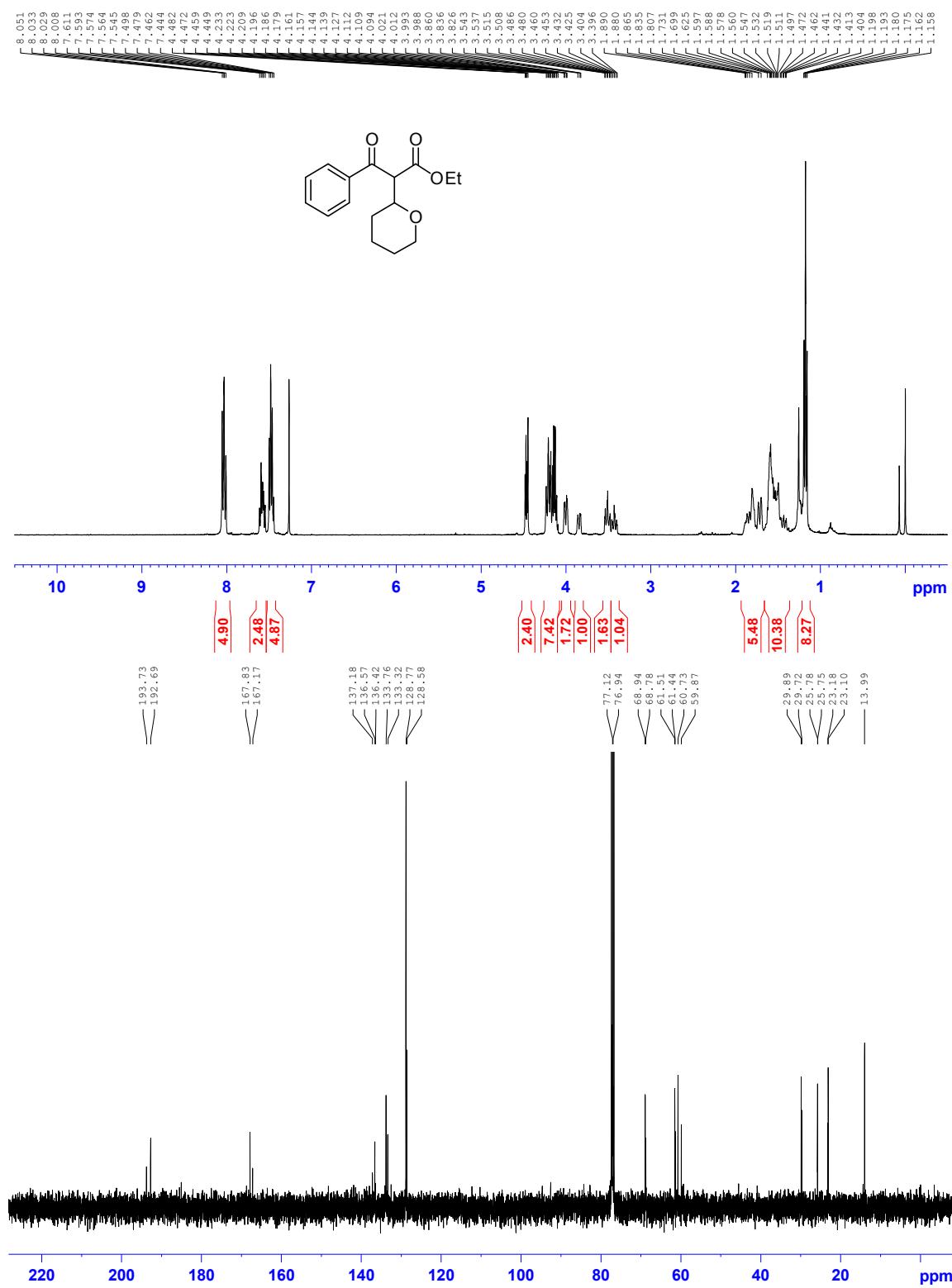


Figure S18. ^1H and ^{13}C NMR spectra of ethyl 3-oxo-3-phenyl-2-(tetrahydro-2H-pyran-2-yl)propanoate (**4r**).

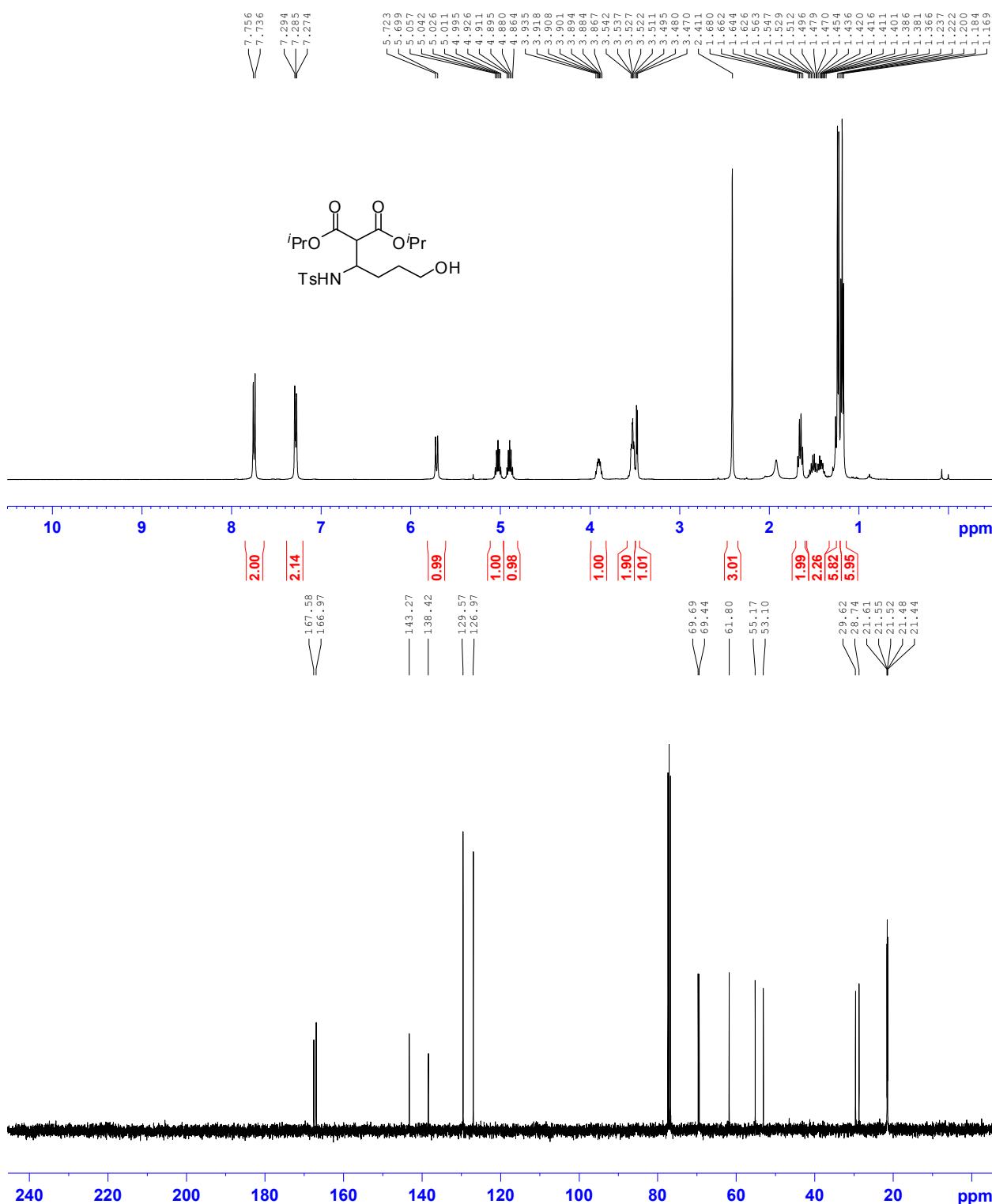


Figure S19. ^1H and ^{13}C NMR spectra of diisopropyl 2-(4-hydroxy-1-(4-methylphenylsulfonamido)butyl)malonate (**5n**).