

Supplementary Materials: Total Synthesis of Chiral Falcarindiol Analogues Using BINOL-Promoted Alkyne Addition to Aldehydes

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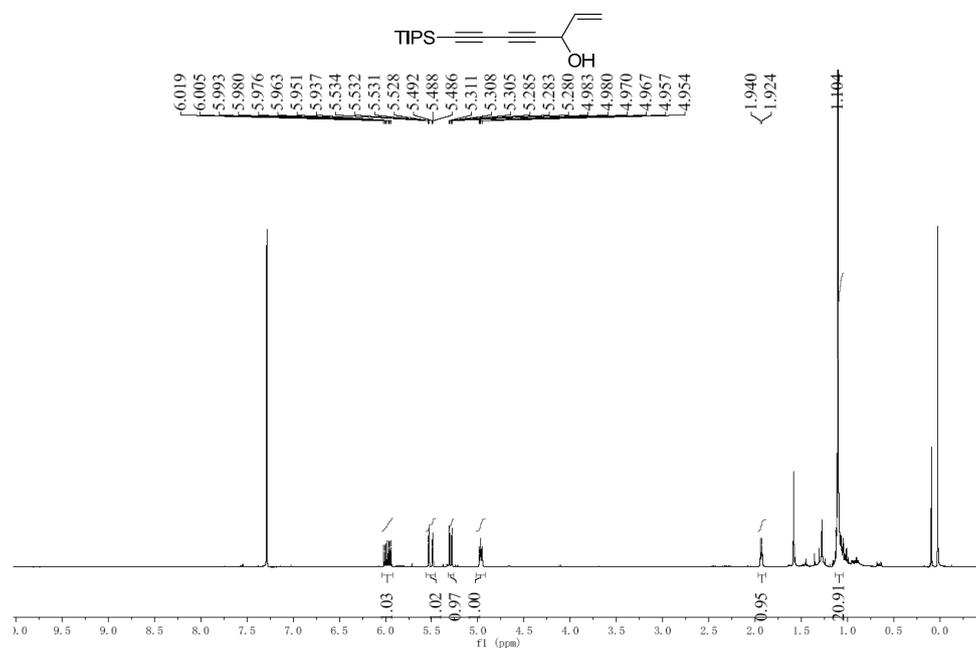


Figure S1. ¹H-NMR spectra of compound 5a.

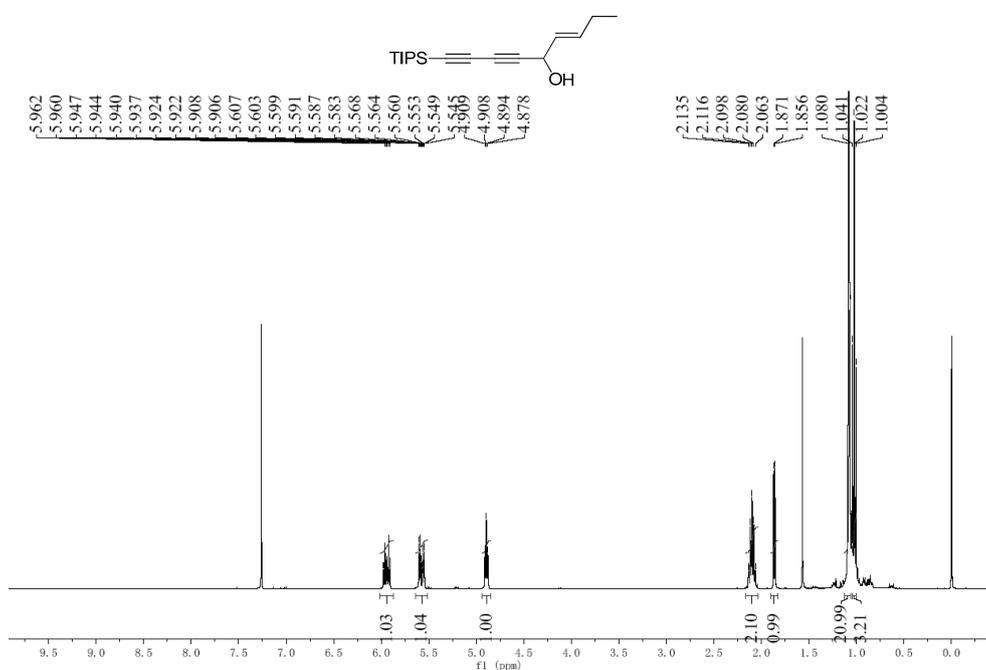


Figure S2. ¹H-NMR spectra of compound 5b.

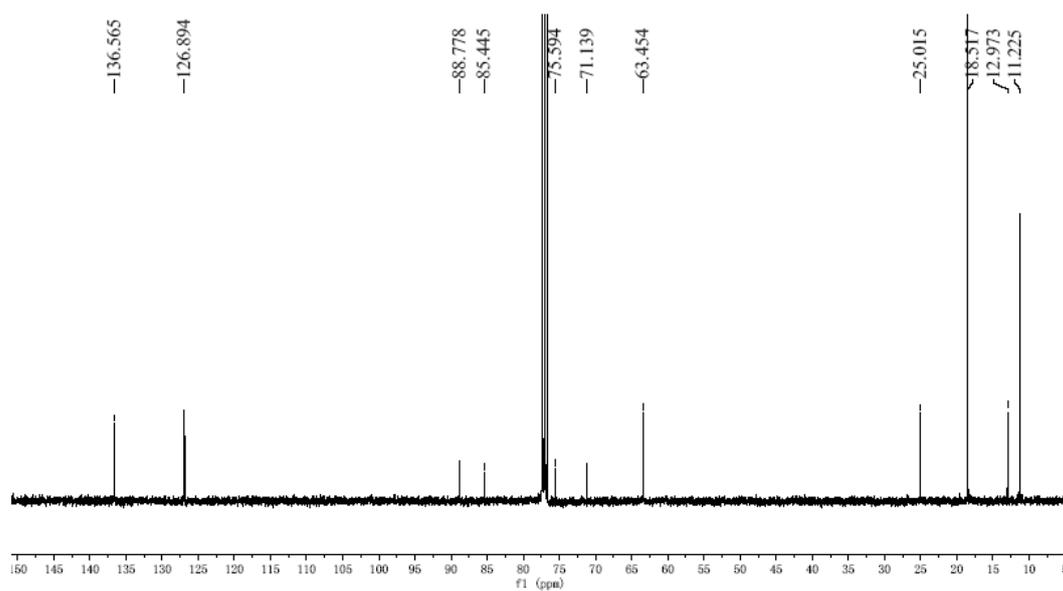


Figure S3. ¹³C-NMR spectra of compound 5b.

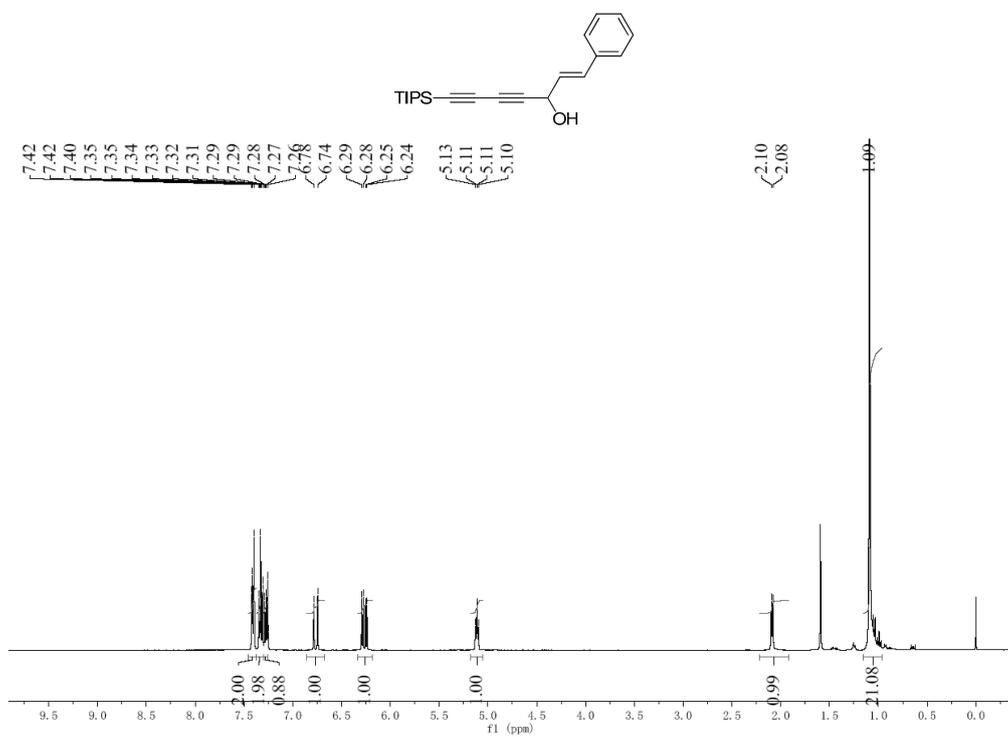
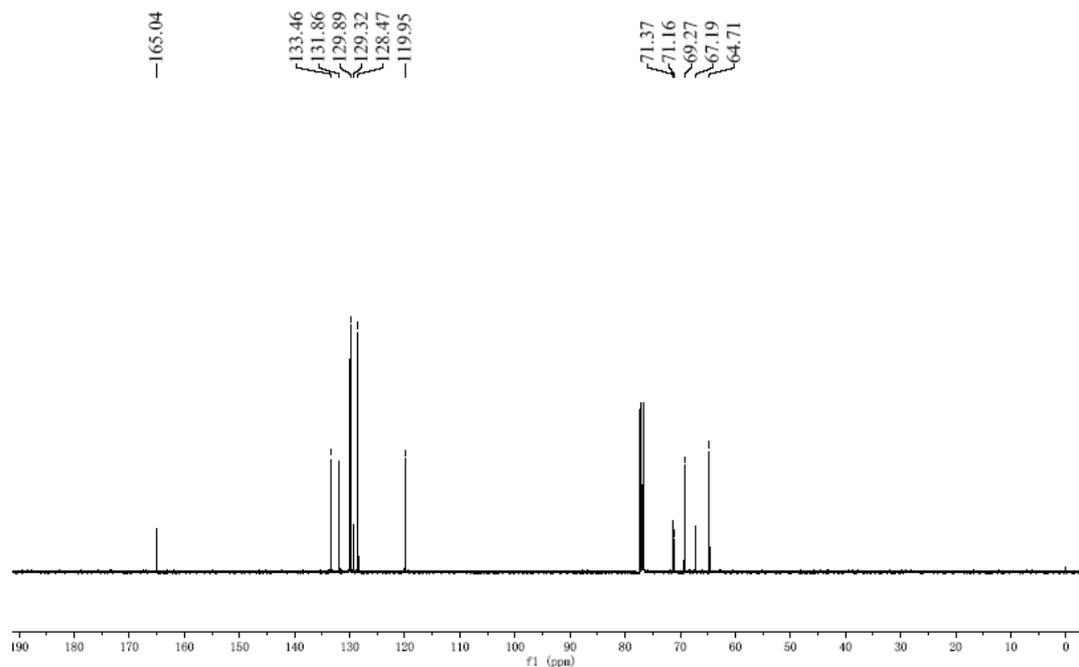
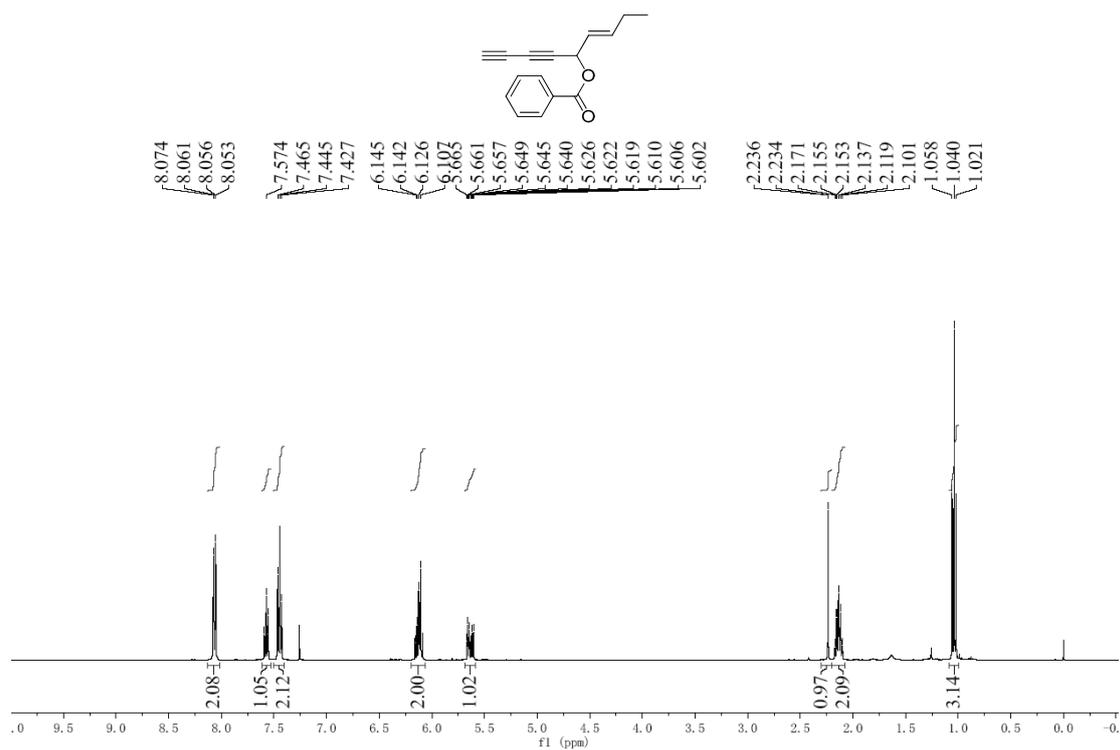
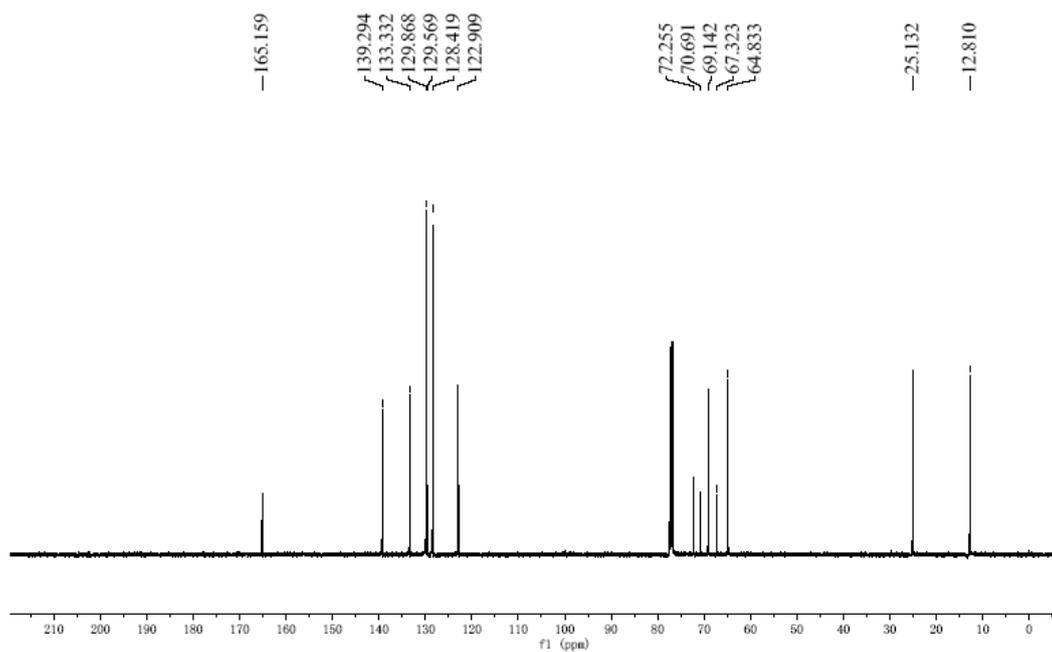
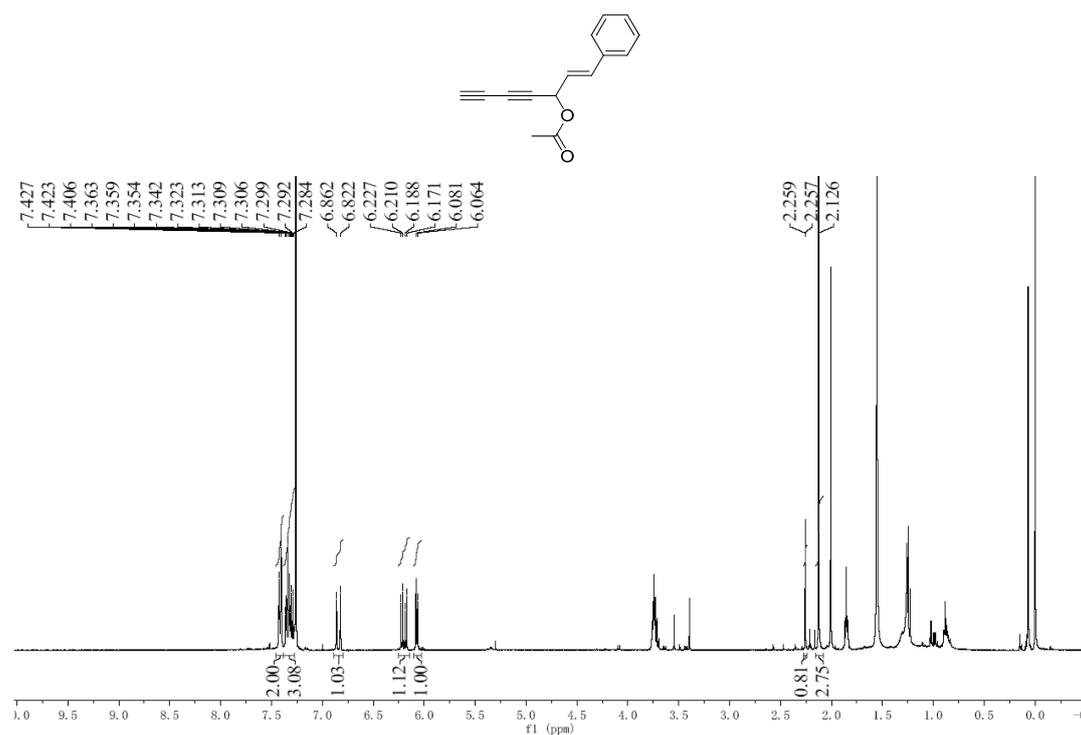
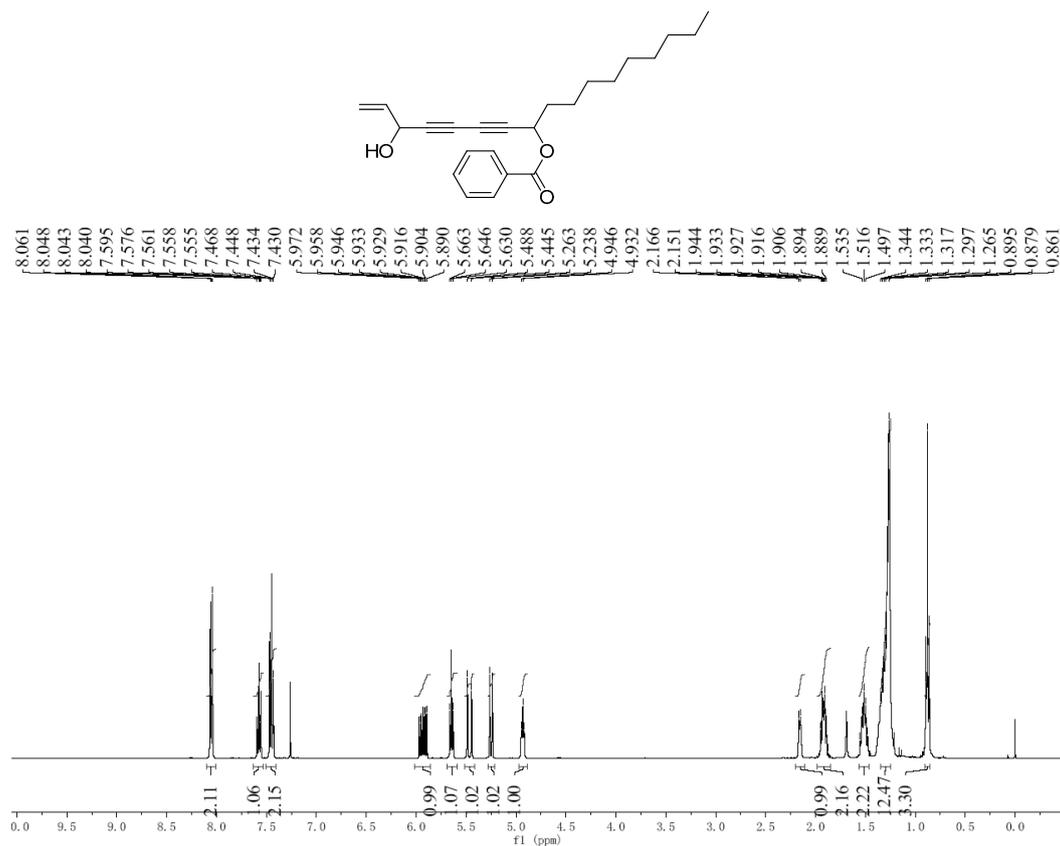
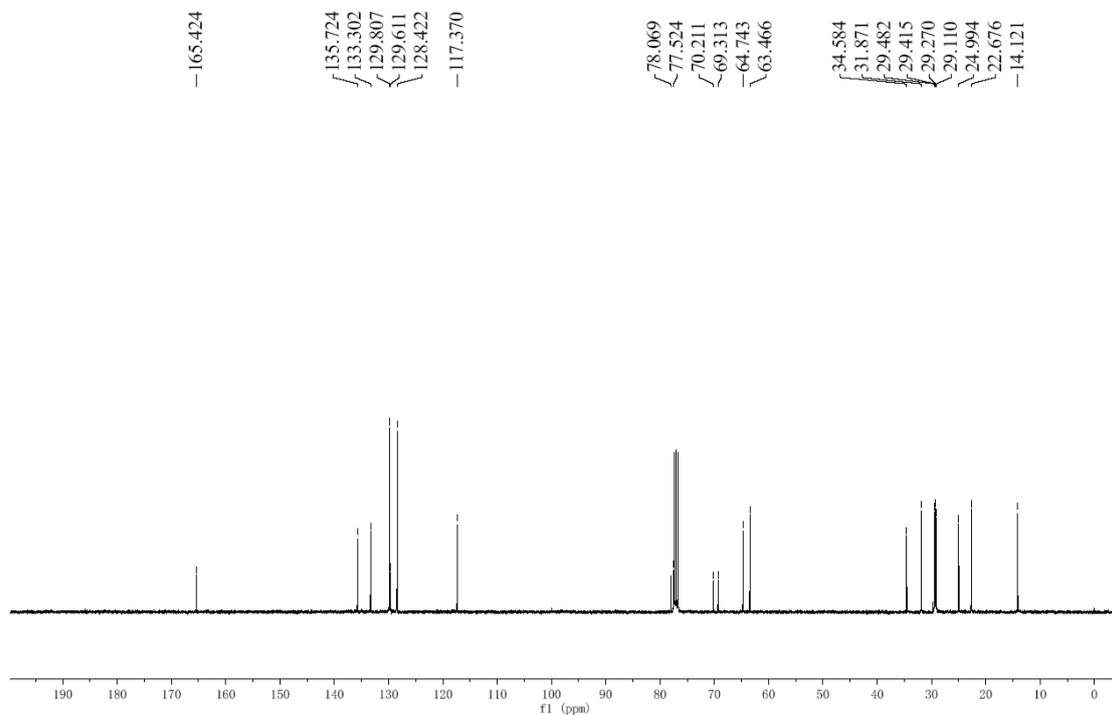
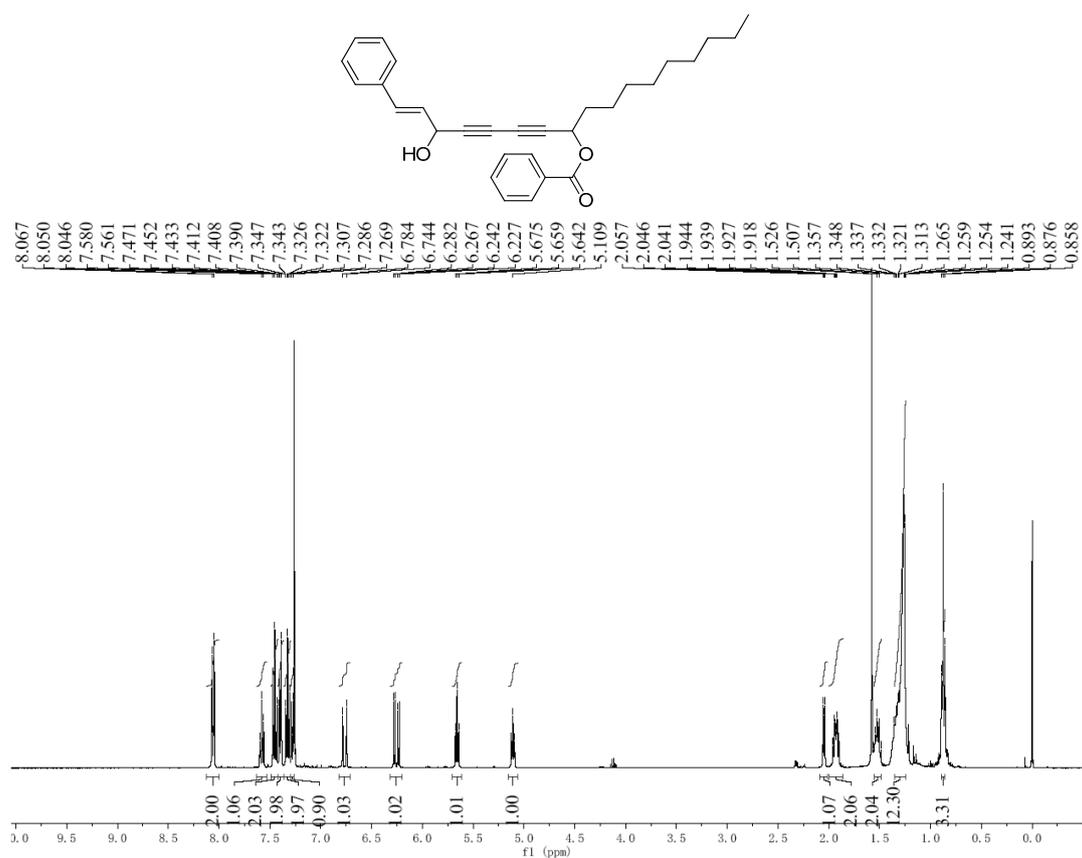
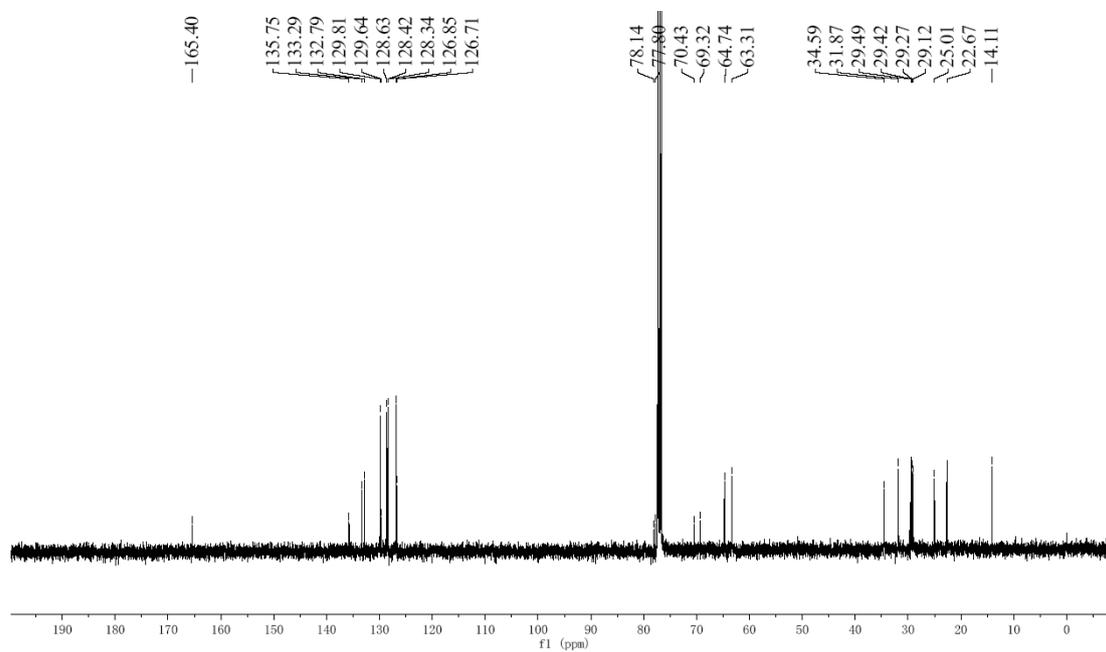


Figure S4. ¹H-NMR spectra of compound 5c.

Figure S7. ¹³C-NMR spectra of compound 6a.Figure S8. ¹H-NMR spectra of compound 6b.

Figure S9. ¹³C-NMR spectra of compound 6b.Figure S10. ¹H-NMR spectra of compound 6c.

Figure S15. $^1\text{H-NMR}$ spectra of compound 7b.Figure S16. $^{13}\text{C-NMR}$ spectra of compound 7b.

Figure S17. ¹H-NMR spectra of compound 7c.Figure S18. ¹³C-NMR spectra of compound 7c.

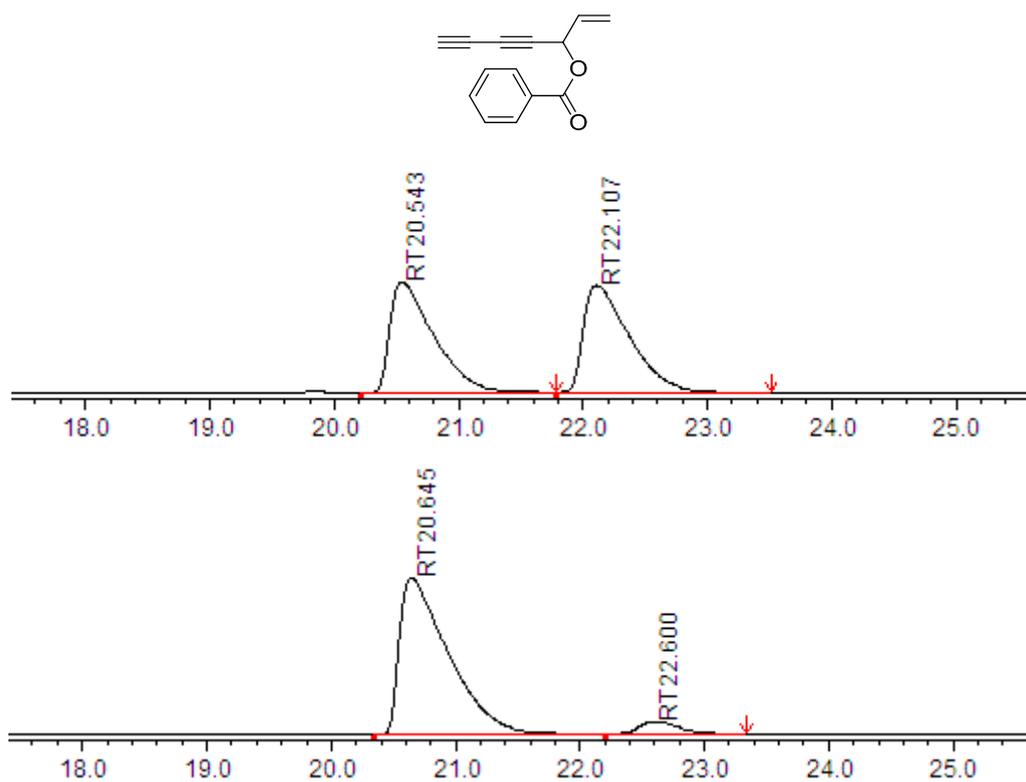


Figure S21. HPLC analysis of **6a** and its corresponding racemate.

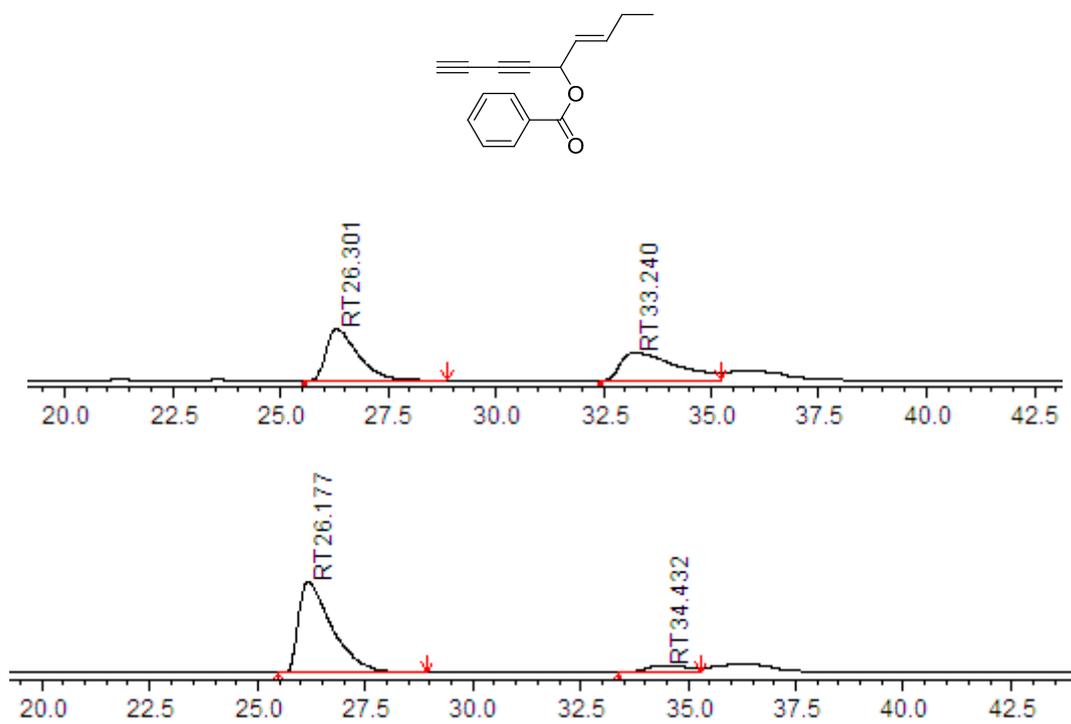


Figure S22. HPLC analysis of **6b** and its corresponding racemate.

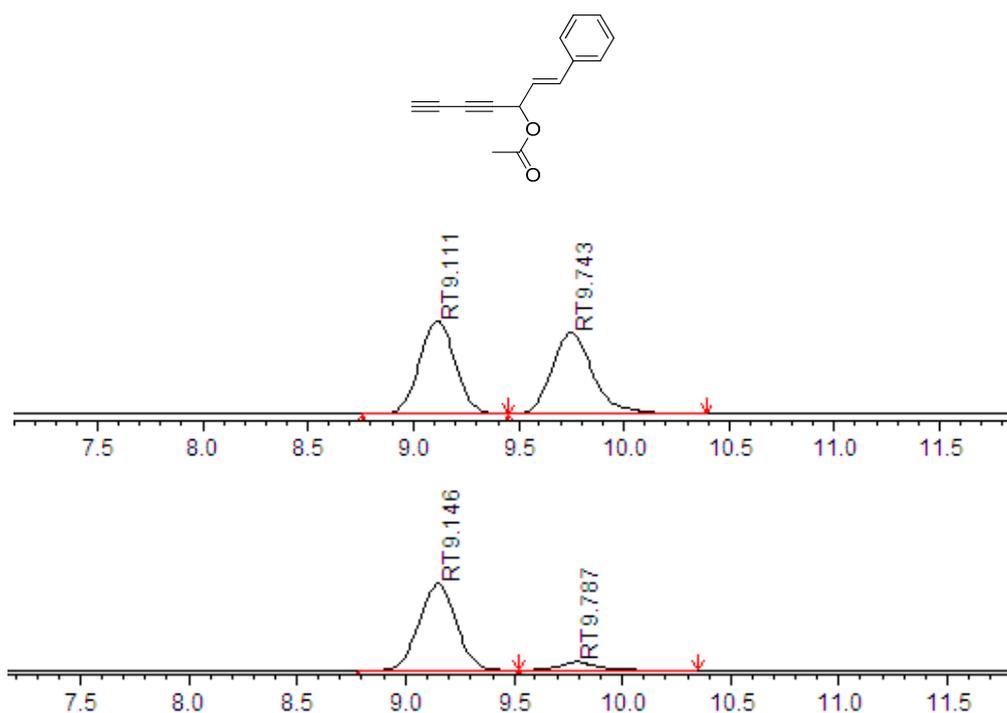


Figure S23. HPLC analysis of **6c** and its corresponding racemate.

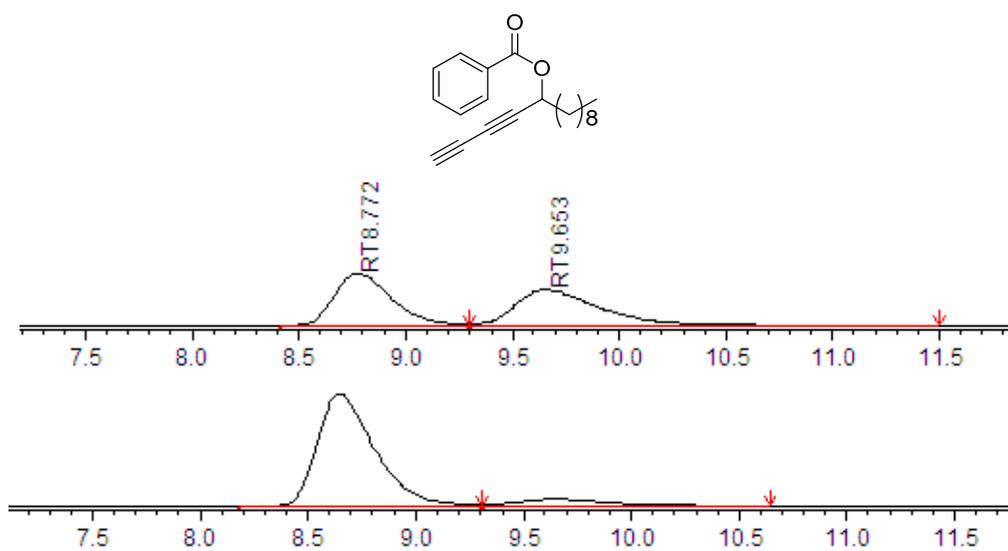


Figure S24. HPLC analysis of **6d** and its corresponding racemate.

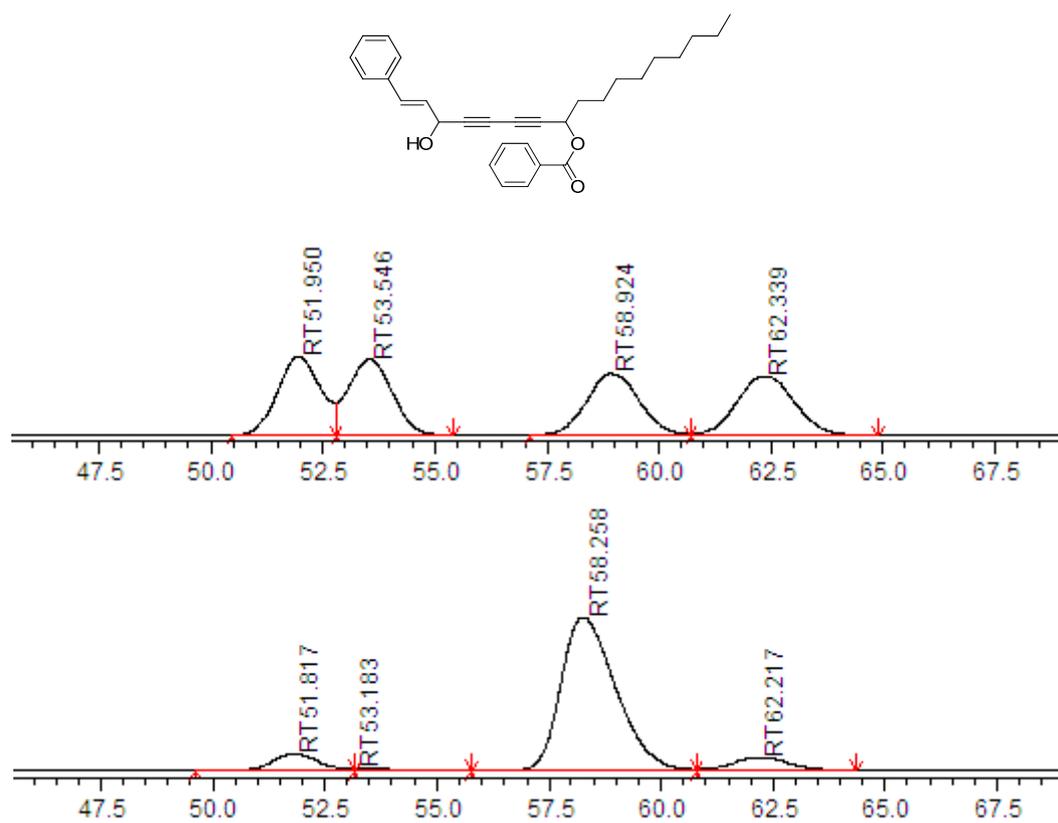


Figure S25. HPLC analysis of 7c and its corresponding racemate.