Supplementary Materials

Synthesis of spin-labeled ibuprofen and its interaction with lipid membrane

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NMR spectra

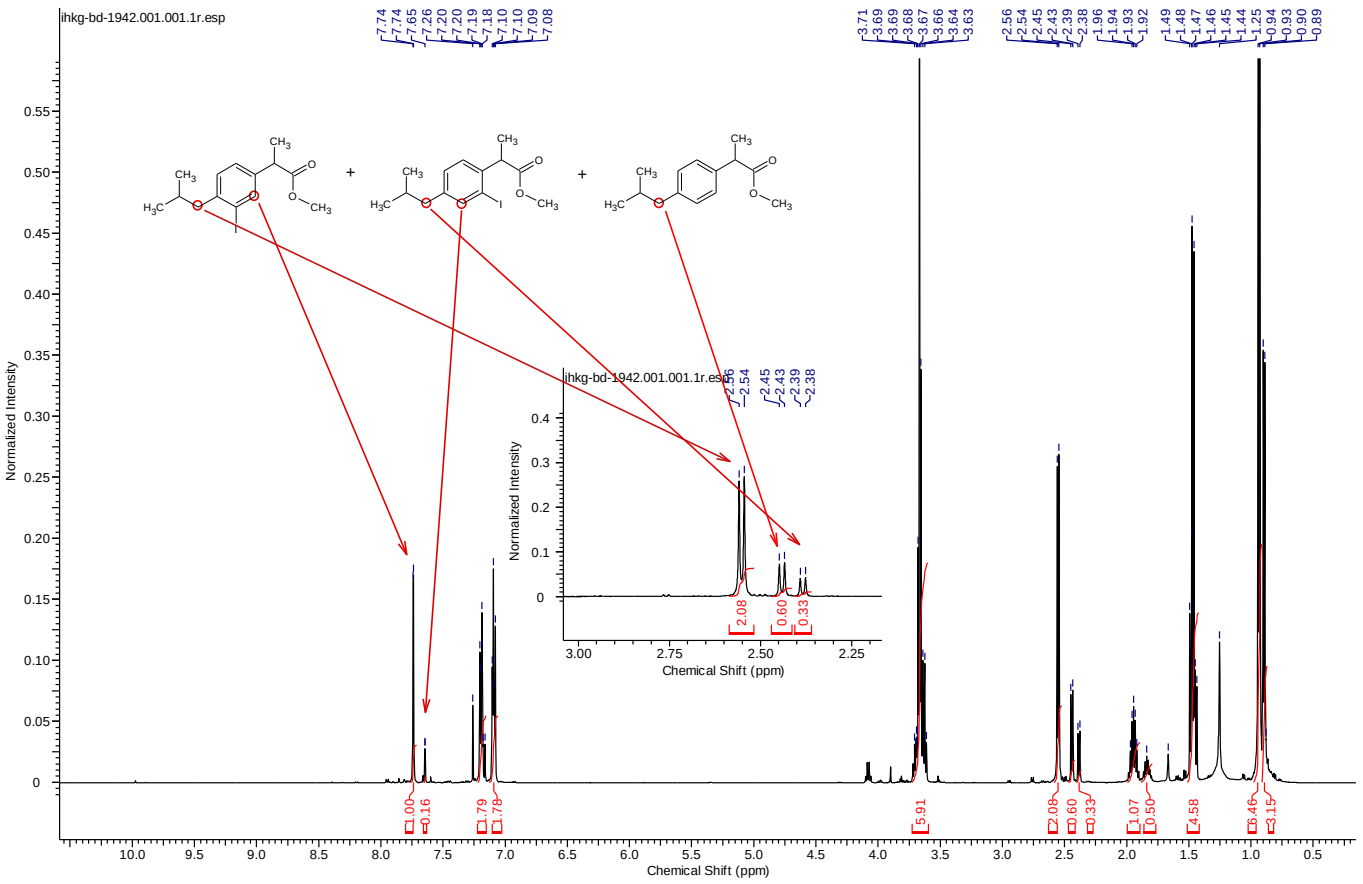


Figure S1. ^{1}H-NMR spectrum (500 MHz, $CDCl_3$) of a mixture of products isolated by the iodination reaction of ibuprofen with iodine and iodic acid in acetic acid at 70 °C, followed by methylation with methanol.

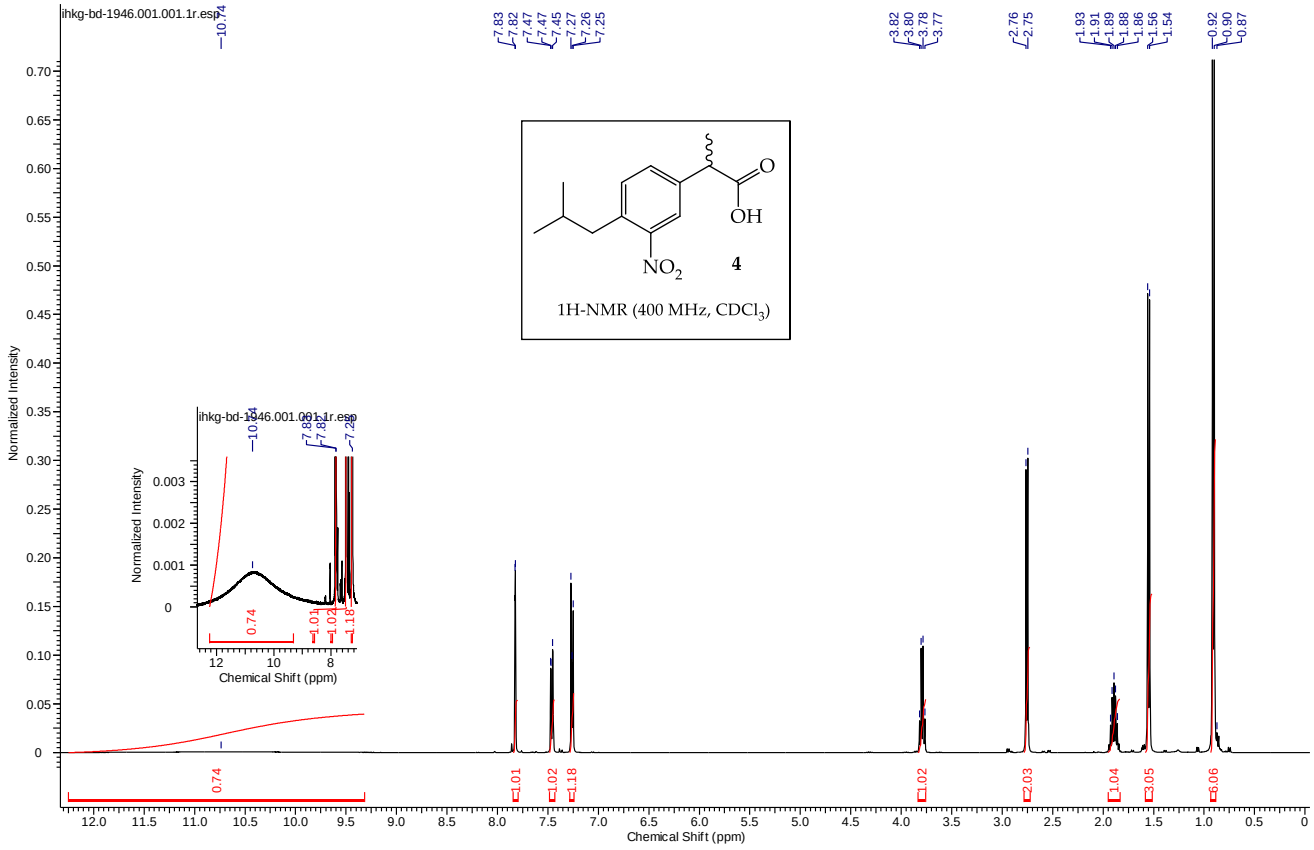


Figure S2. ^{1}H-NMR spectrum of compound **4**.

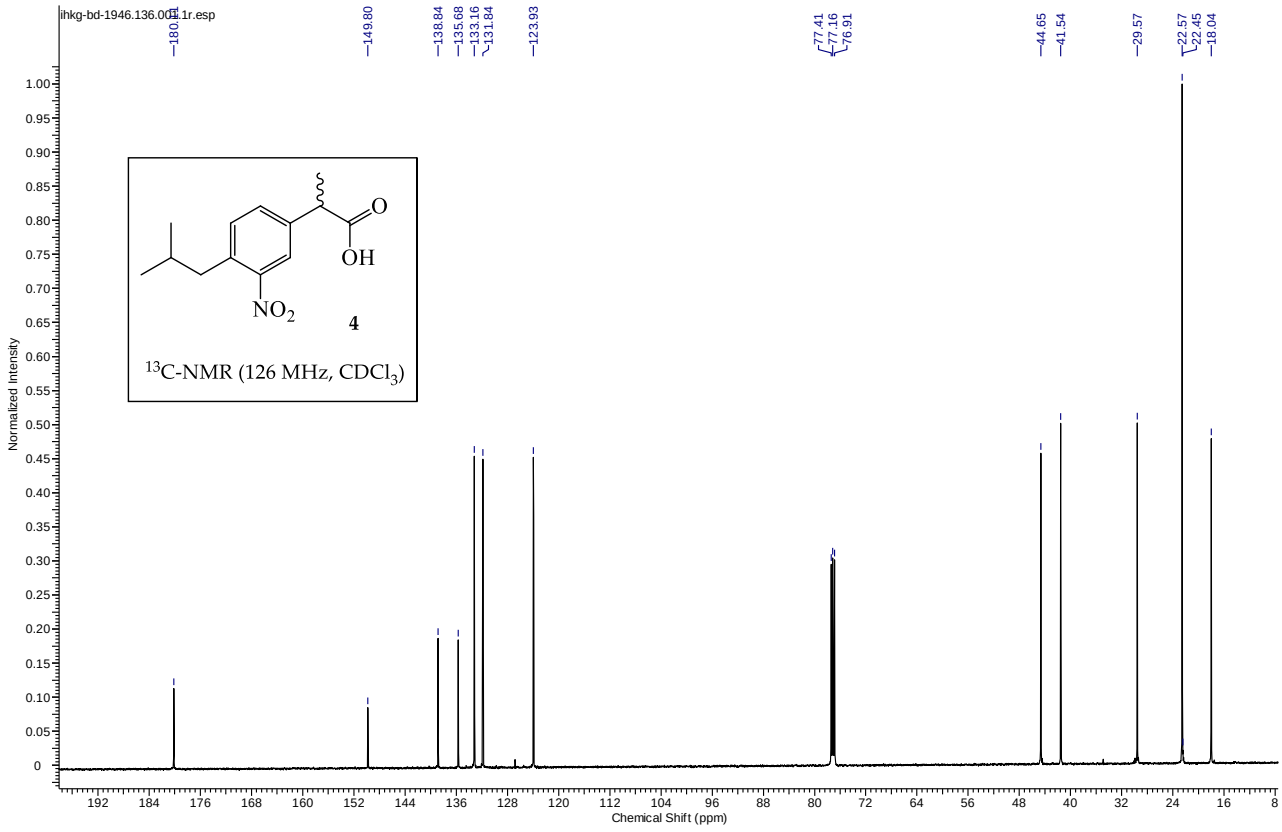


Figure S3. ^{13}C-NMR spectrum of compound **4**.

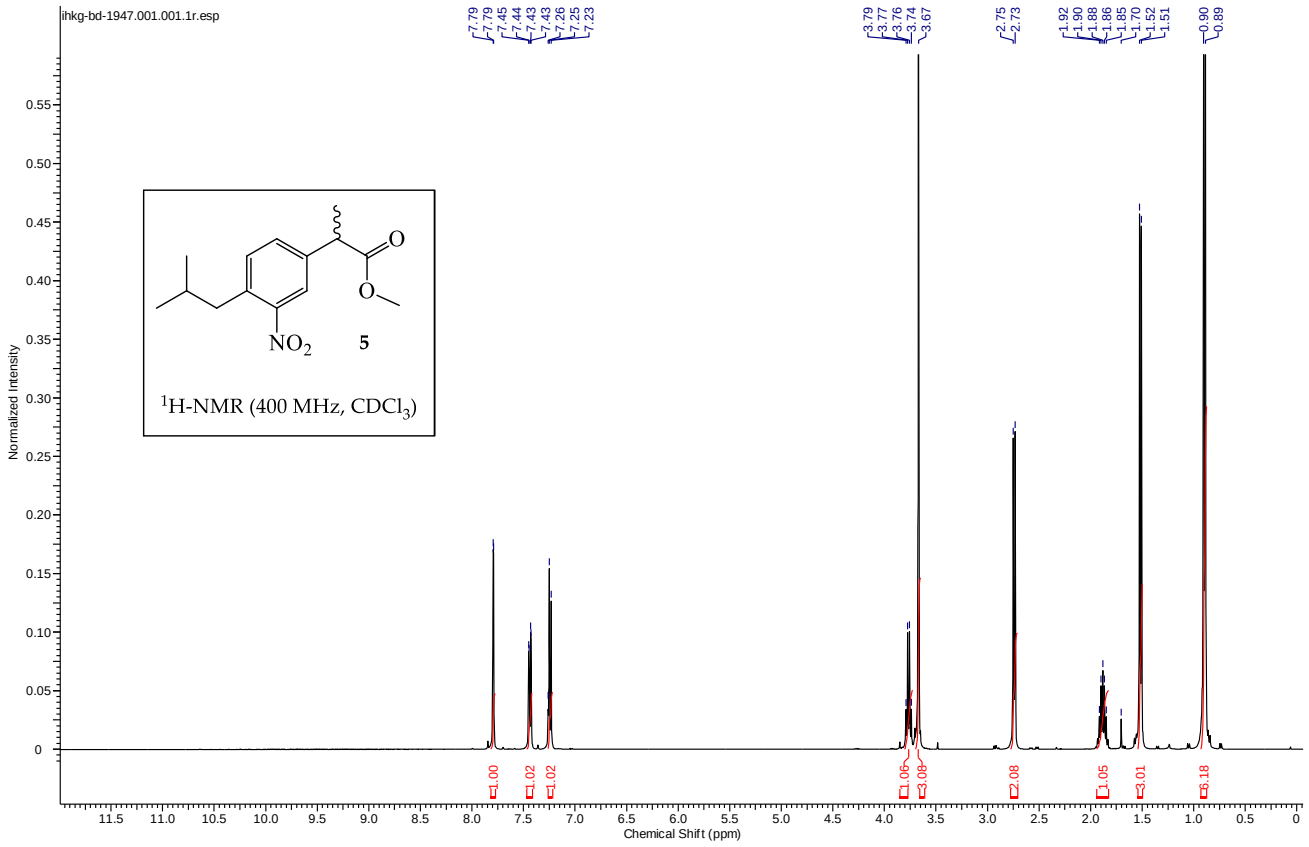


Figure S4. ^{1}H-NMR spectrum of compound **5**.

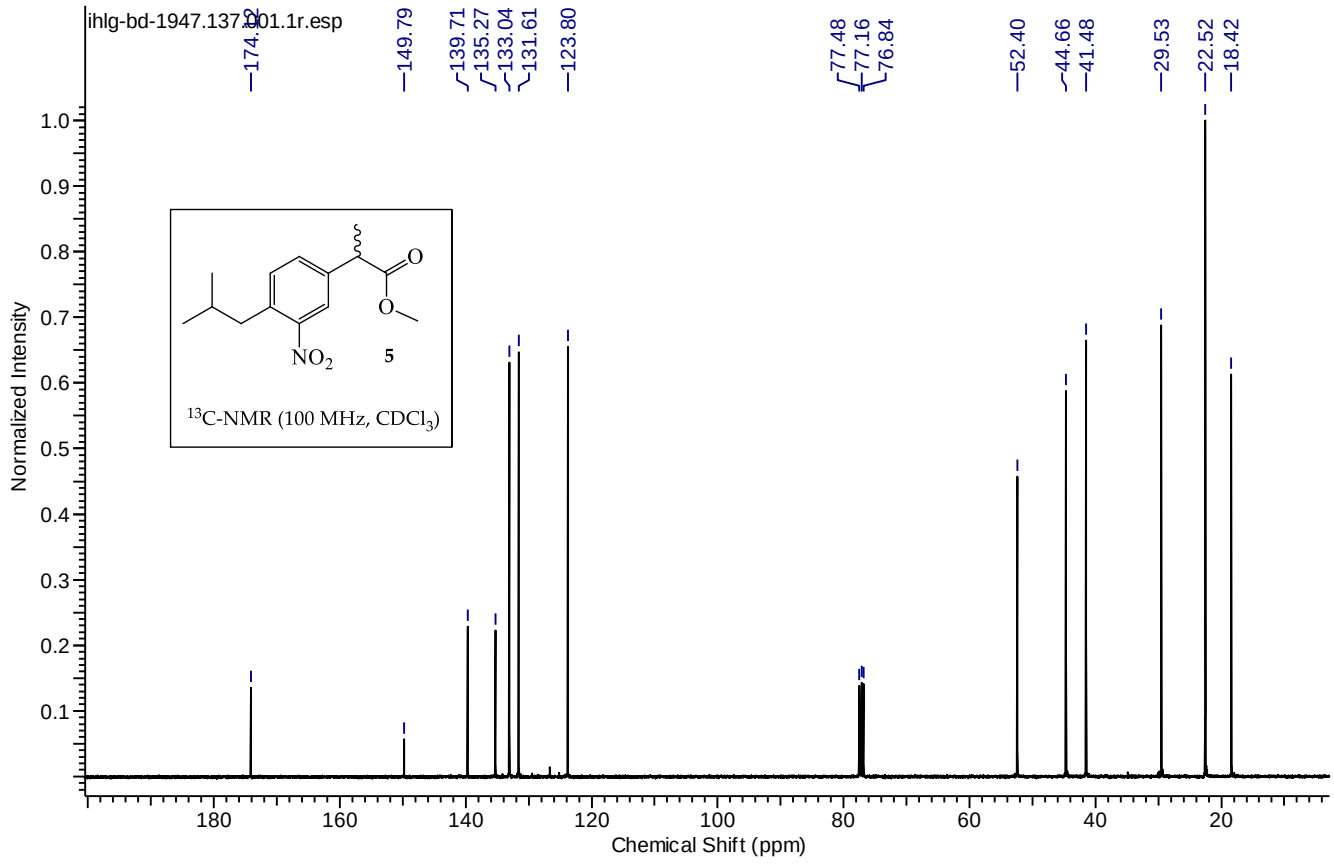


Figure S5. ^{13}C-NMR spectrum of compound **5**.

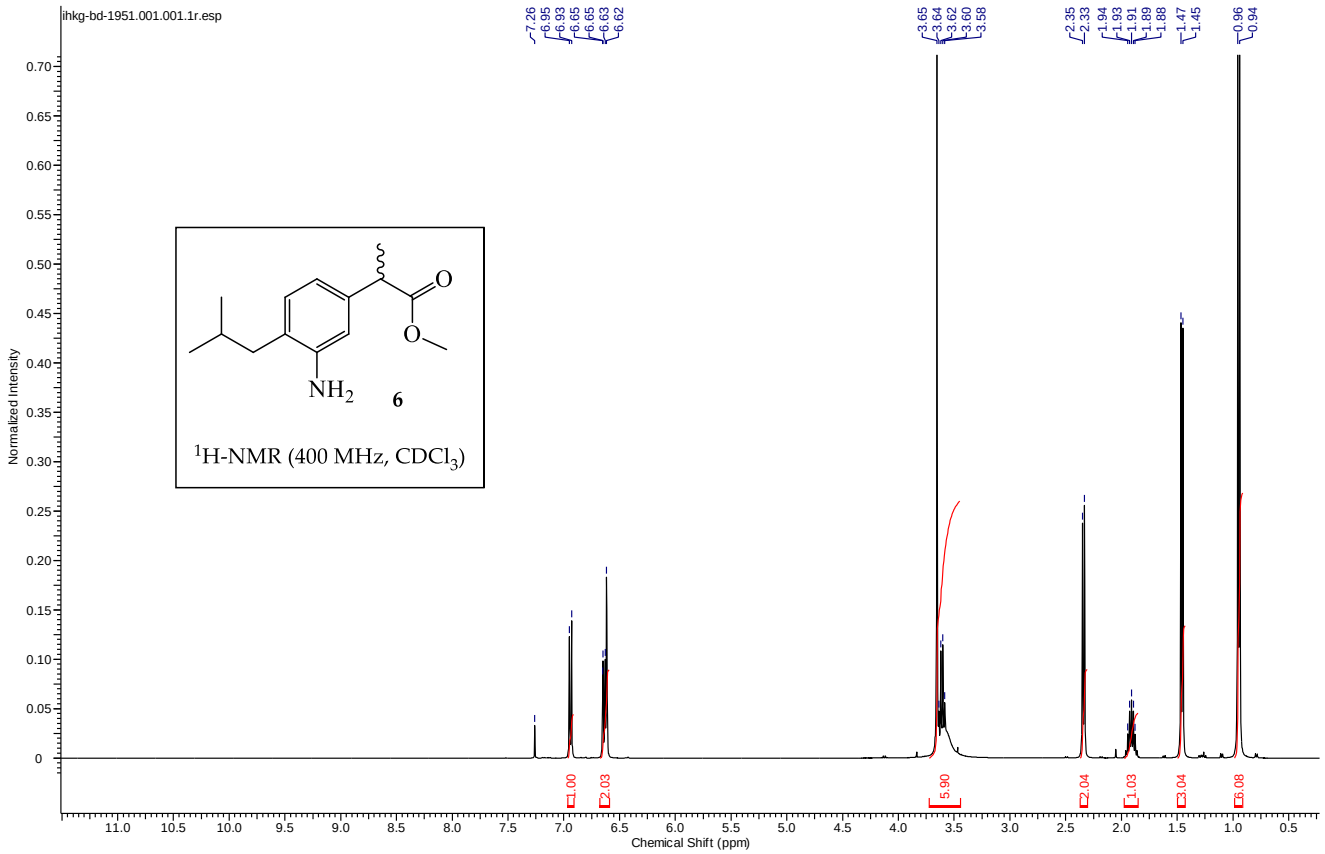


Figure S6. ^{1}H-NMR spectrum of compound **6**.

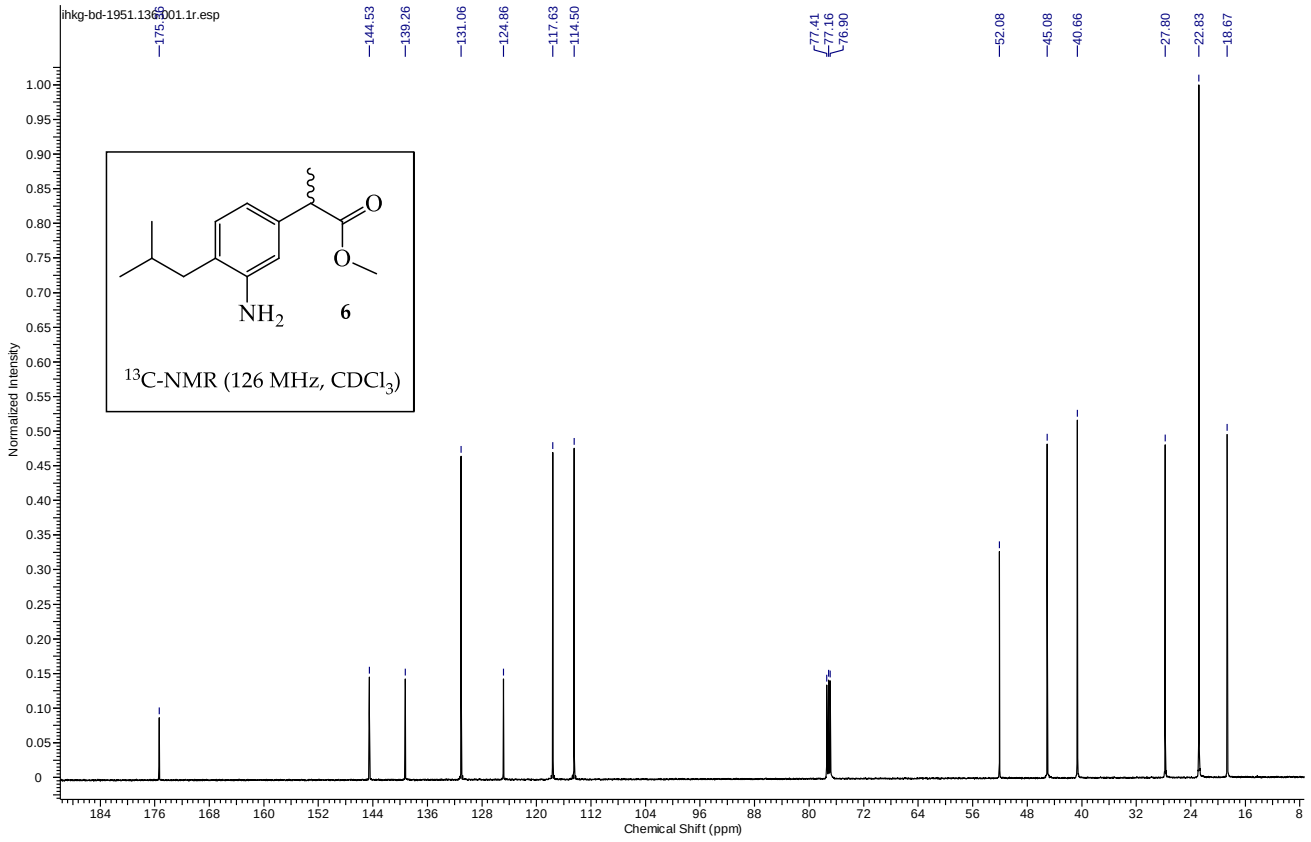


Figure S7. ^{13}C-NMR spectrum of compound **6**.

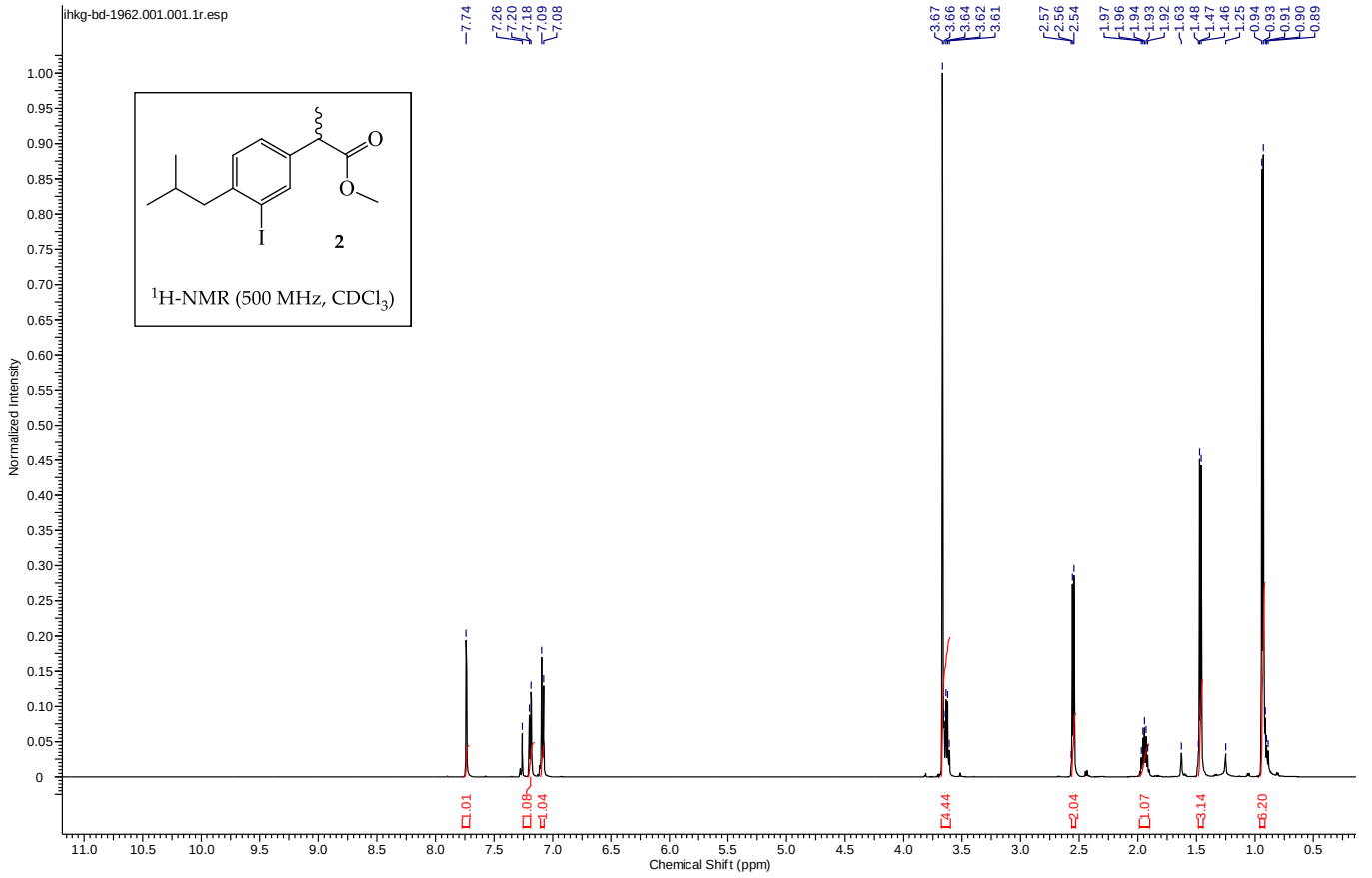


Figure S8. ^{1}H-NMR spectrum of compound **2**.

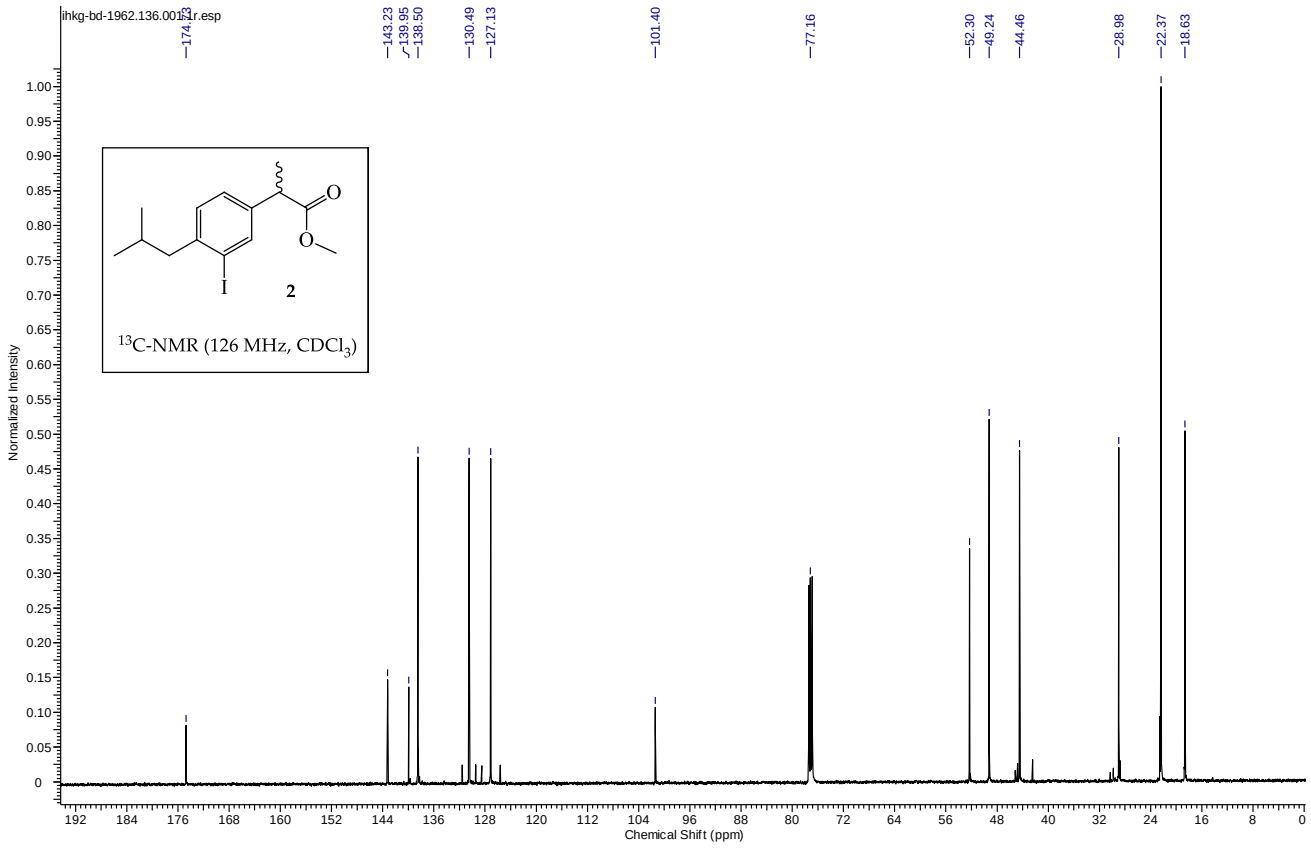


Figure S9. ^{13}C-NMR spectrum of compound **2**.

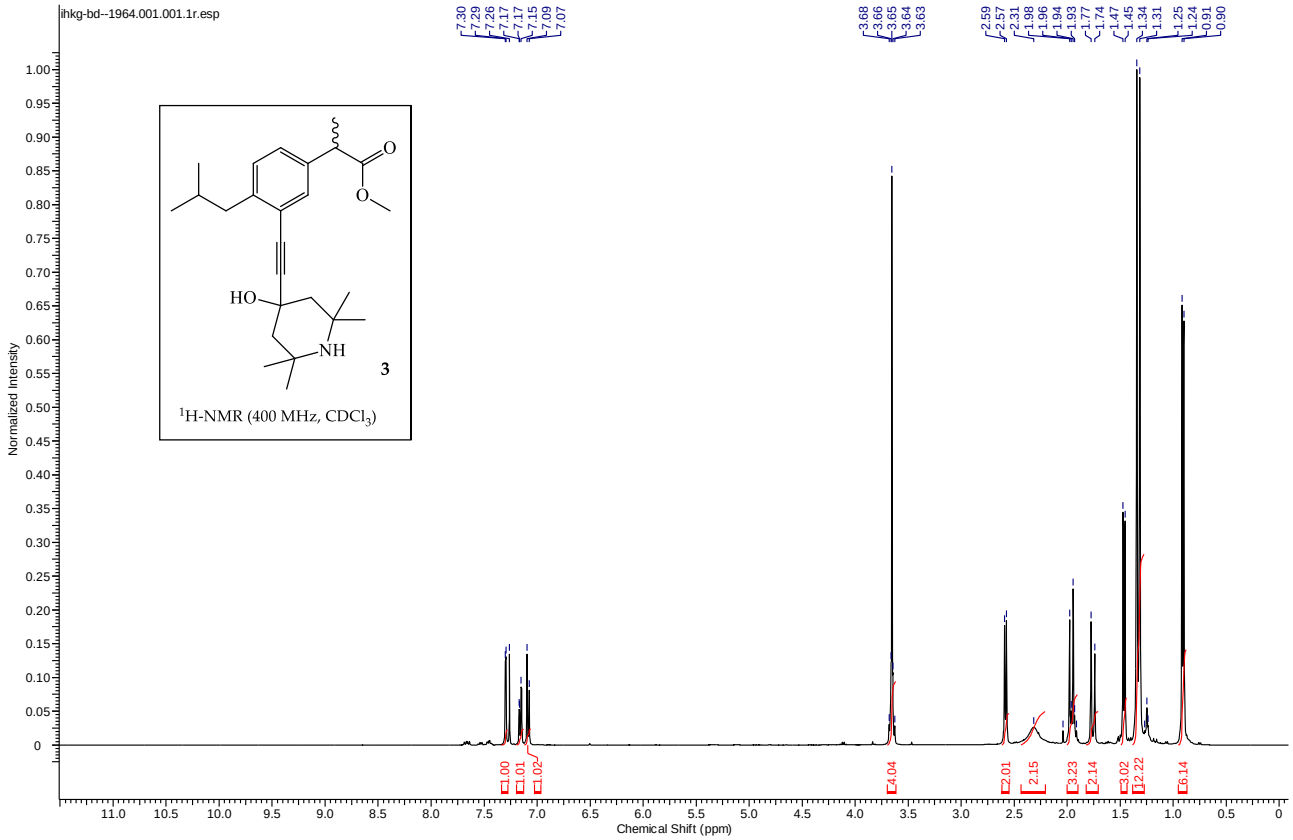


Figure S10. ^{1}H-NMR spectrum of compound **3**.

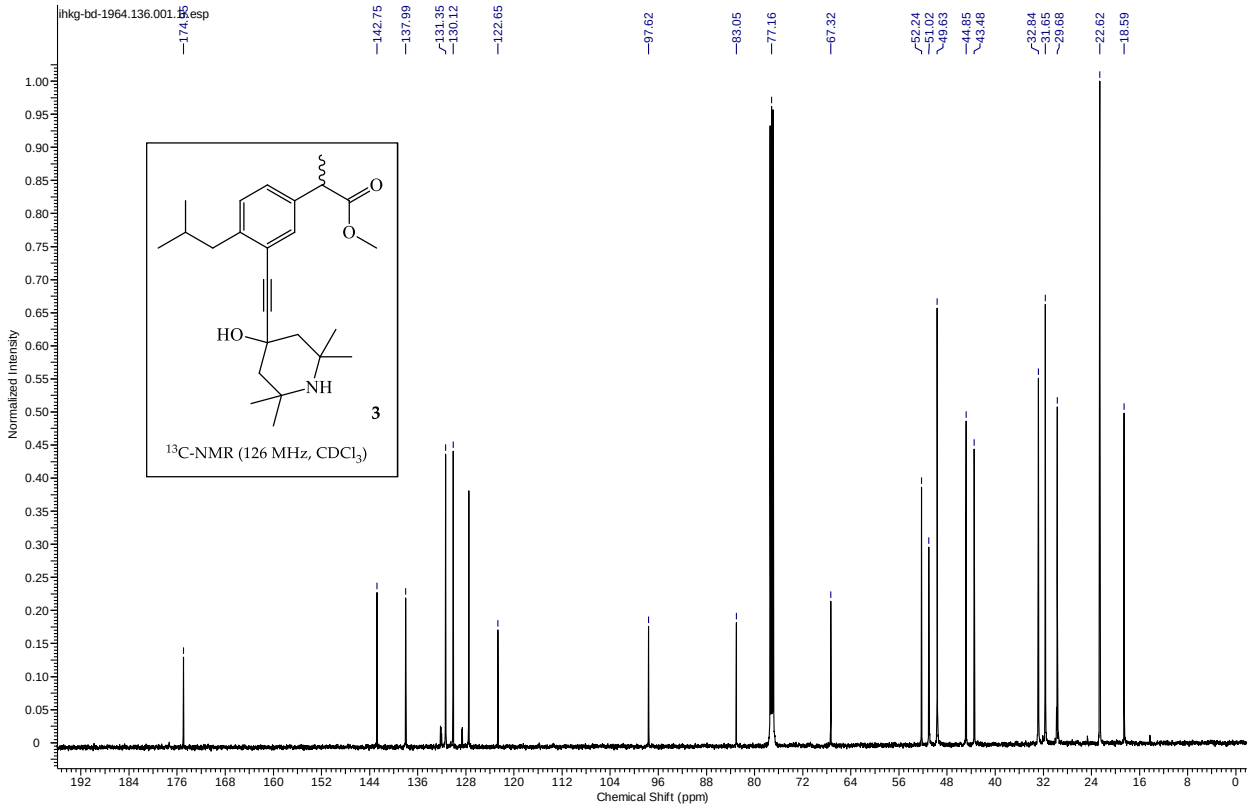


Figure S11. ^{13}C-NMR spectrum of compound **3**.

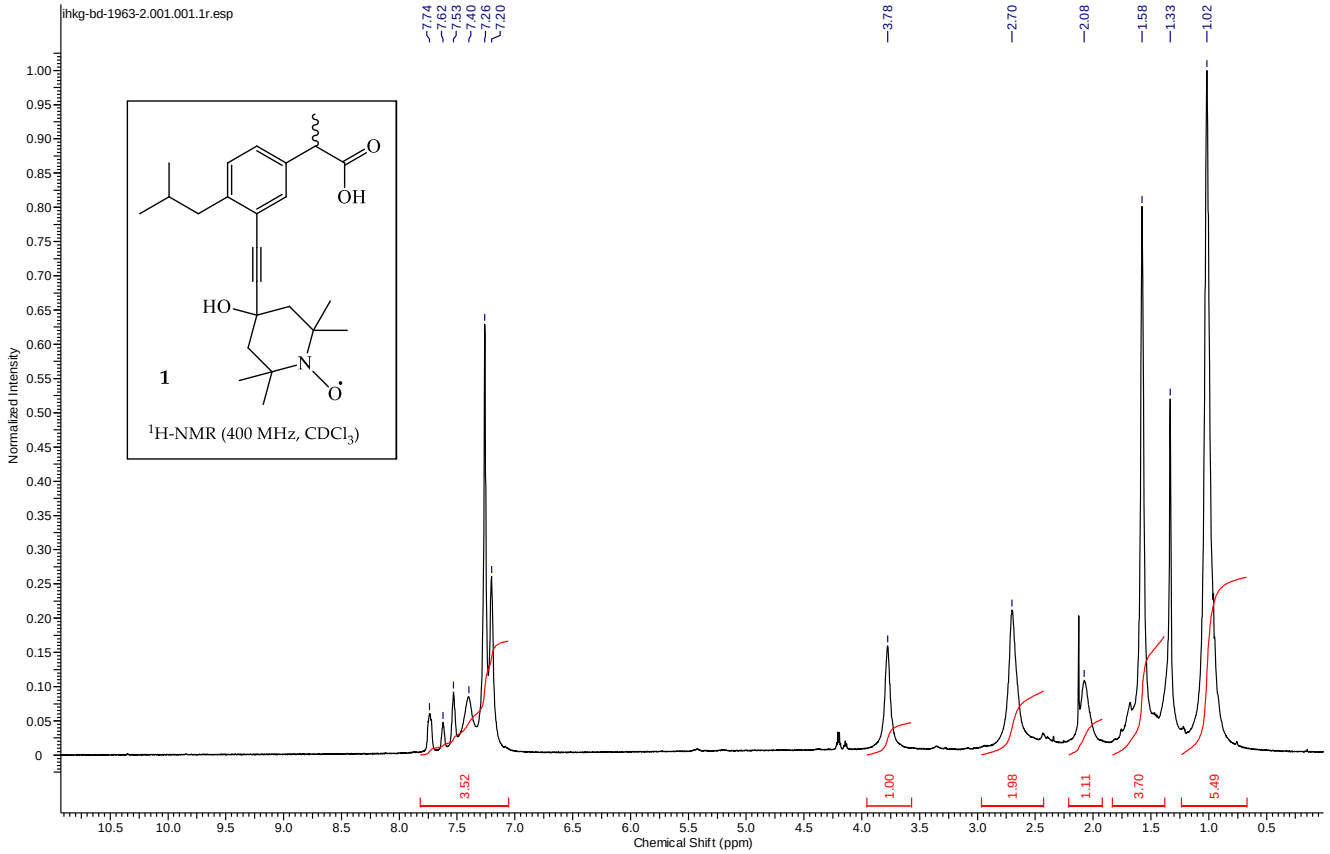


Figure S12. ^{1}H-NMR spectrum of compound **1**.

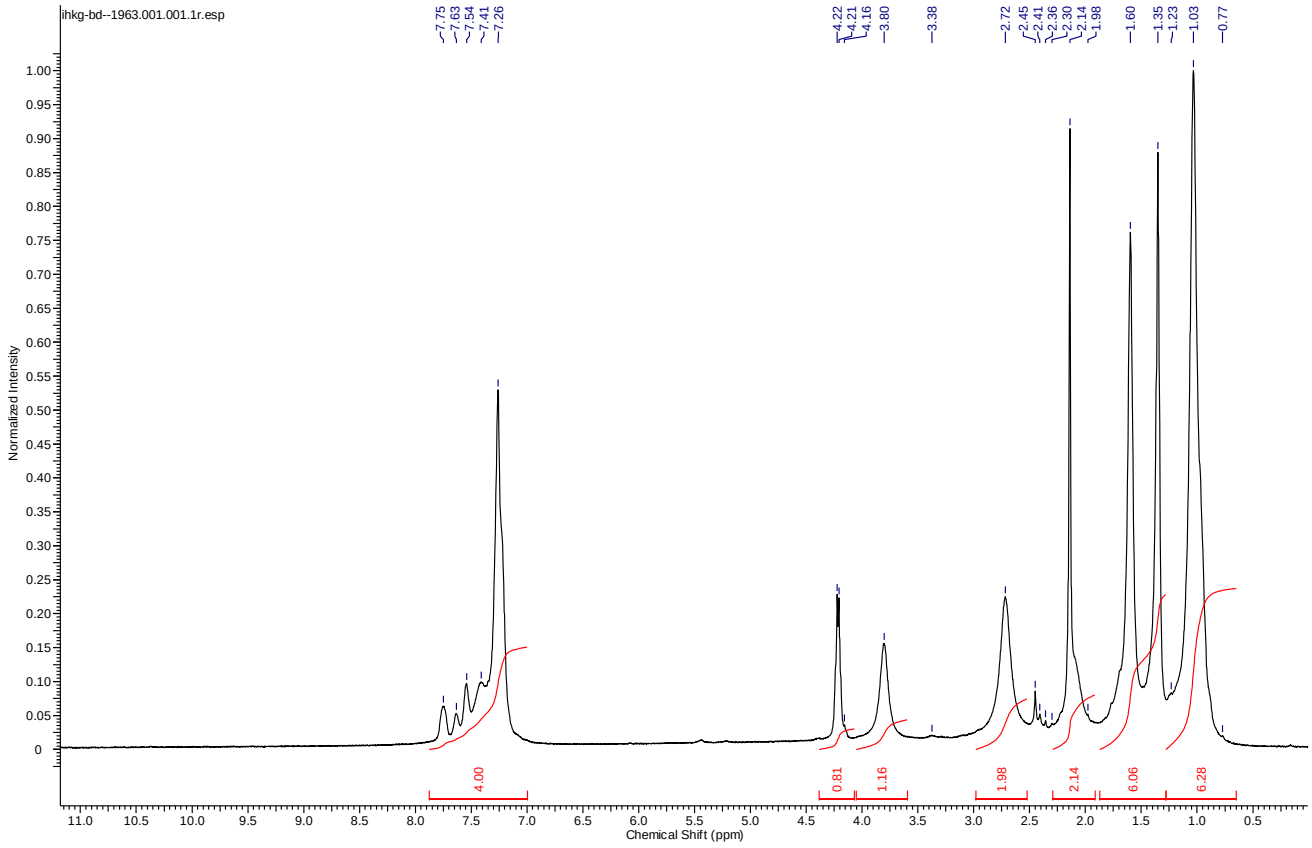


Figure S13. ^{1}H-NMR spectrum of mixture of compound **1** and ethyl acetate.

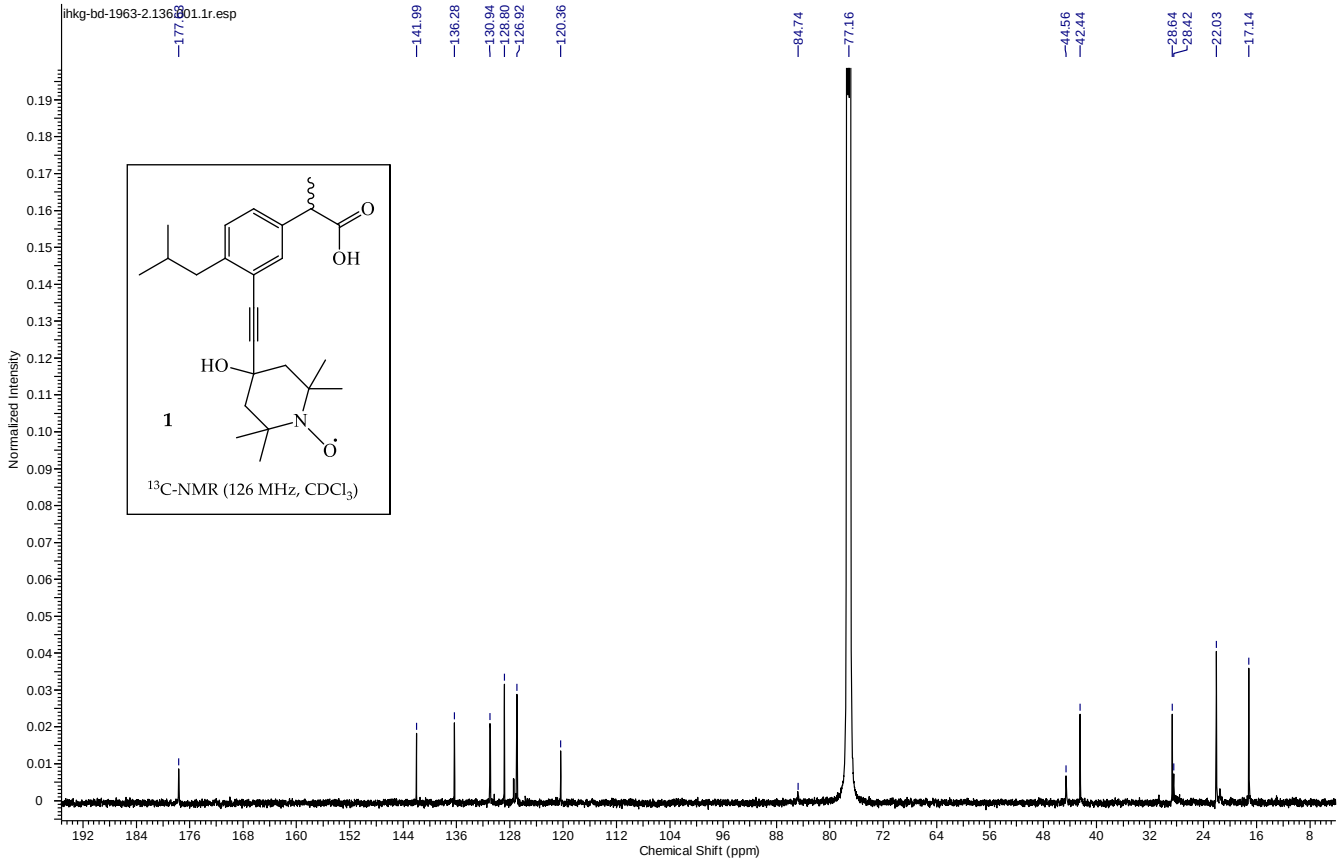


Figure S14. ^{13}C-NMR spectrum of compound **1**.

IR spectra

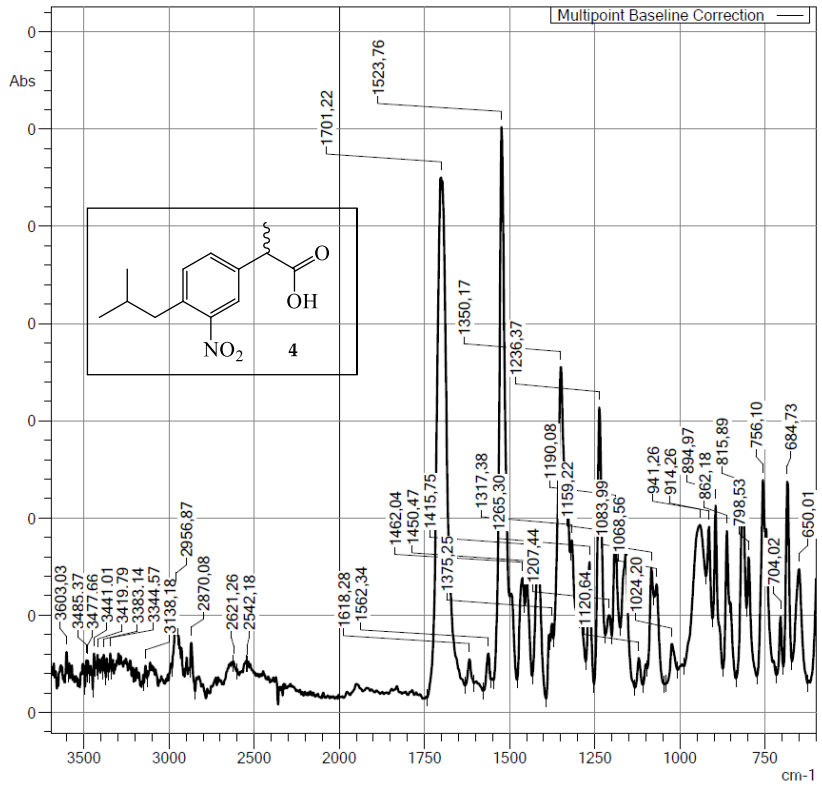


Figure S15. IR spectrum of compound **4.**

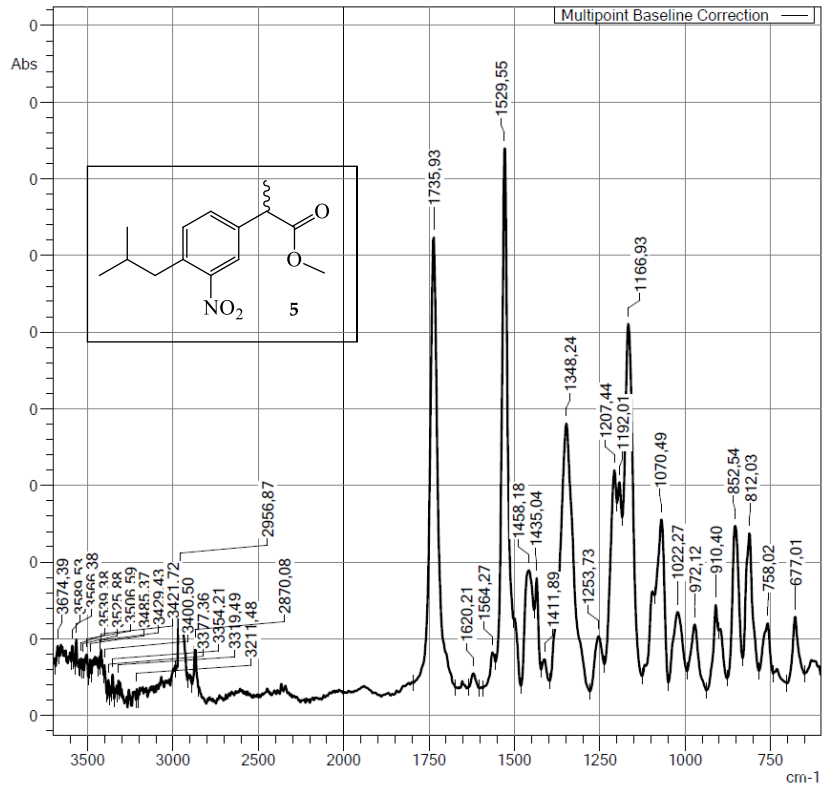


Figure S16. IR spectrum of compound **5.**

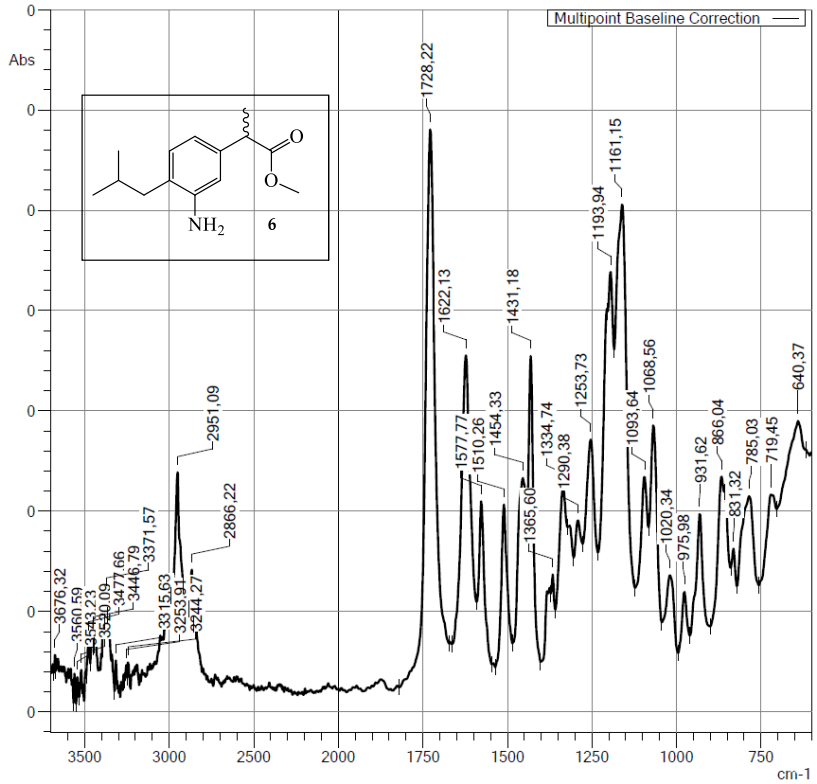


Figure S17. IR spectrum of compound **6.**

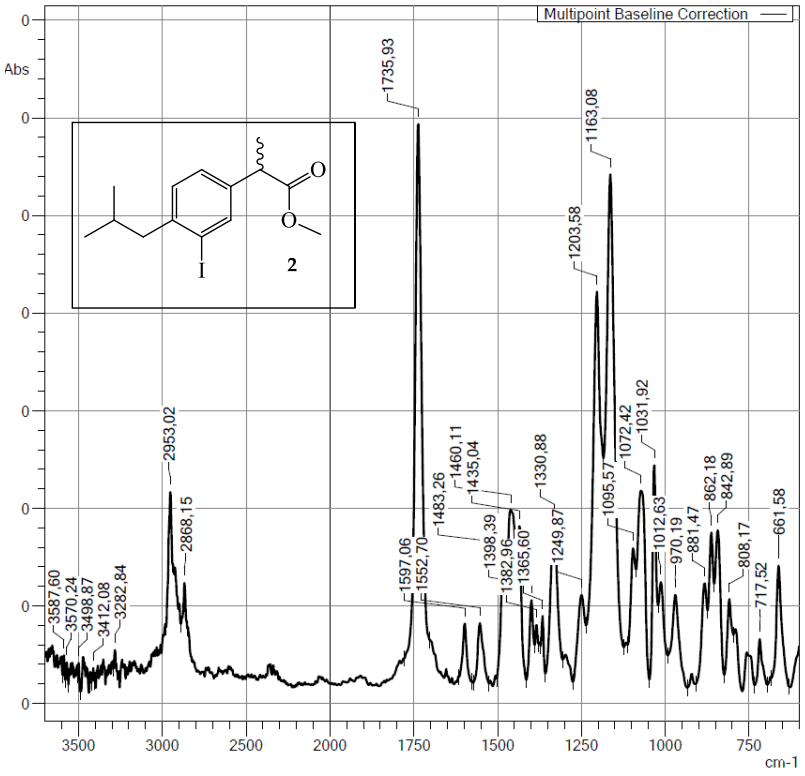


Figure S18. IR spectrum of compound **2.**

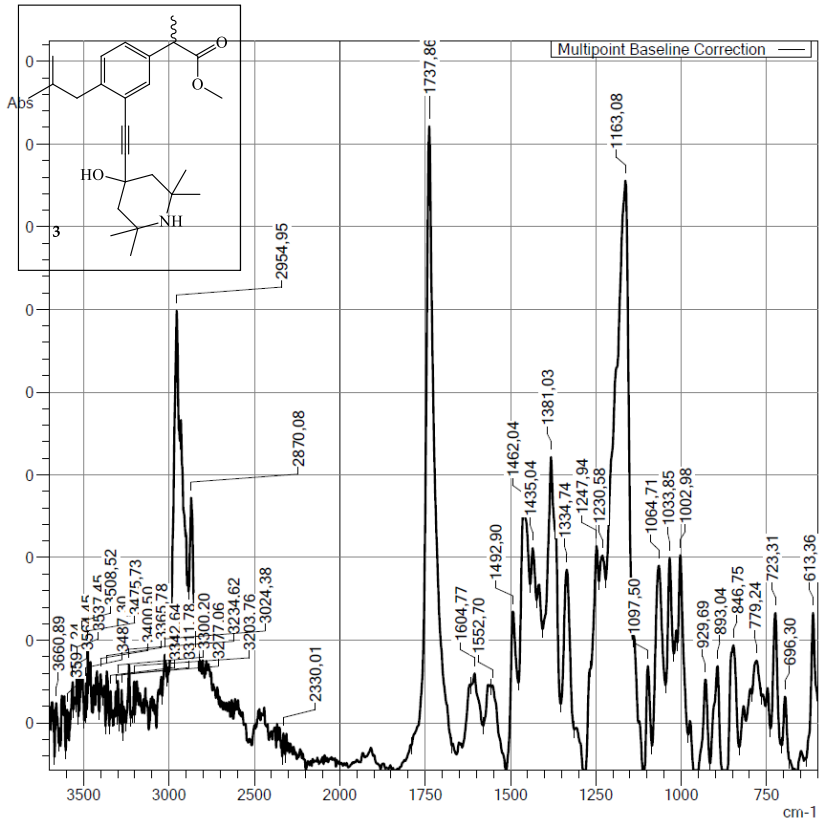


Figure S19. IR spectrum of compound **3.**

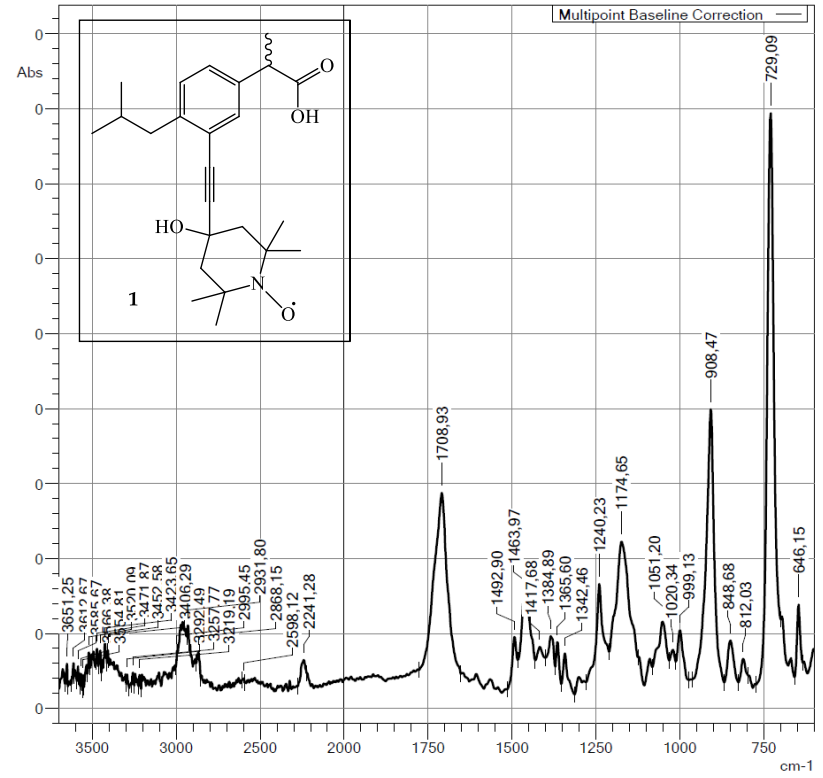


Figure S20. IR spectrum of compound **1.**

HRMS spectra

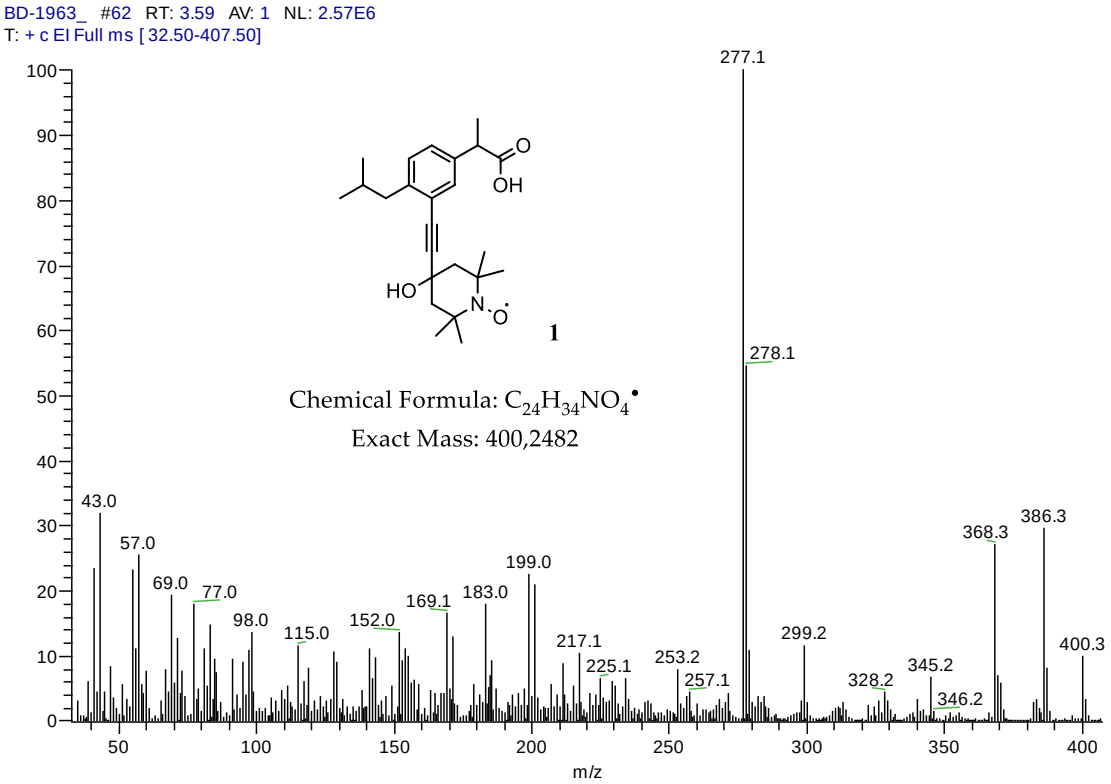


Figure S21. HRMS spectrum of compound **1.**

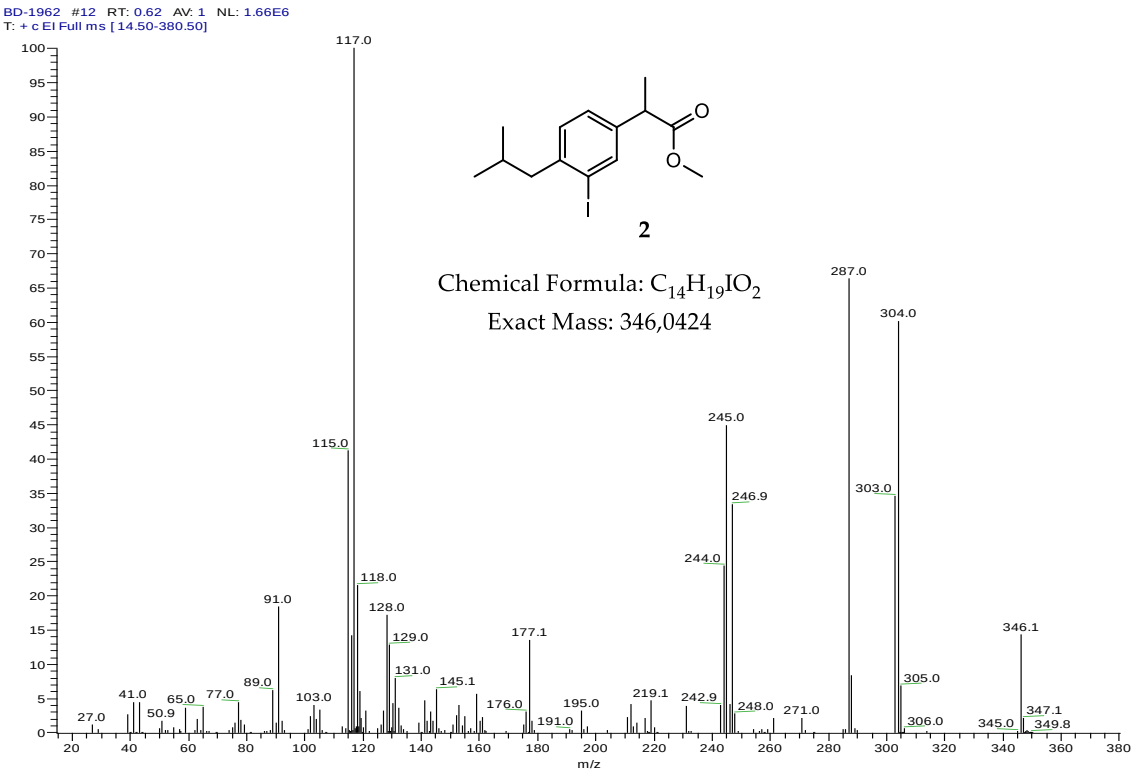


Figure S22. HRMS spectrum of compound **2.**

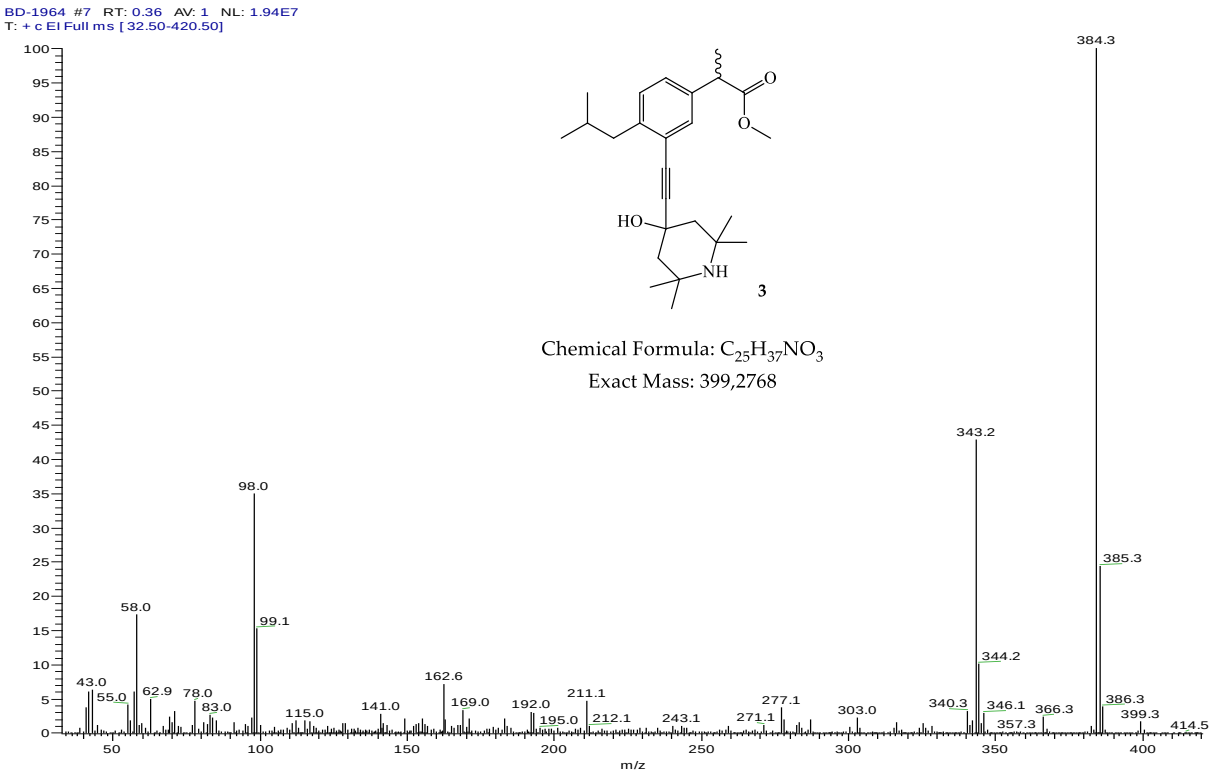


Figure S23. HRMS spectrum of compound **3.**

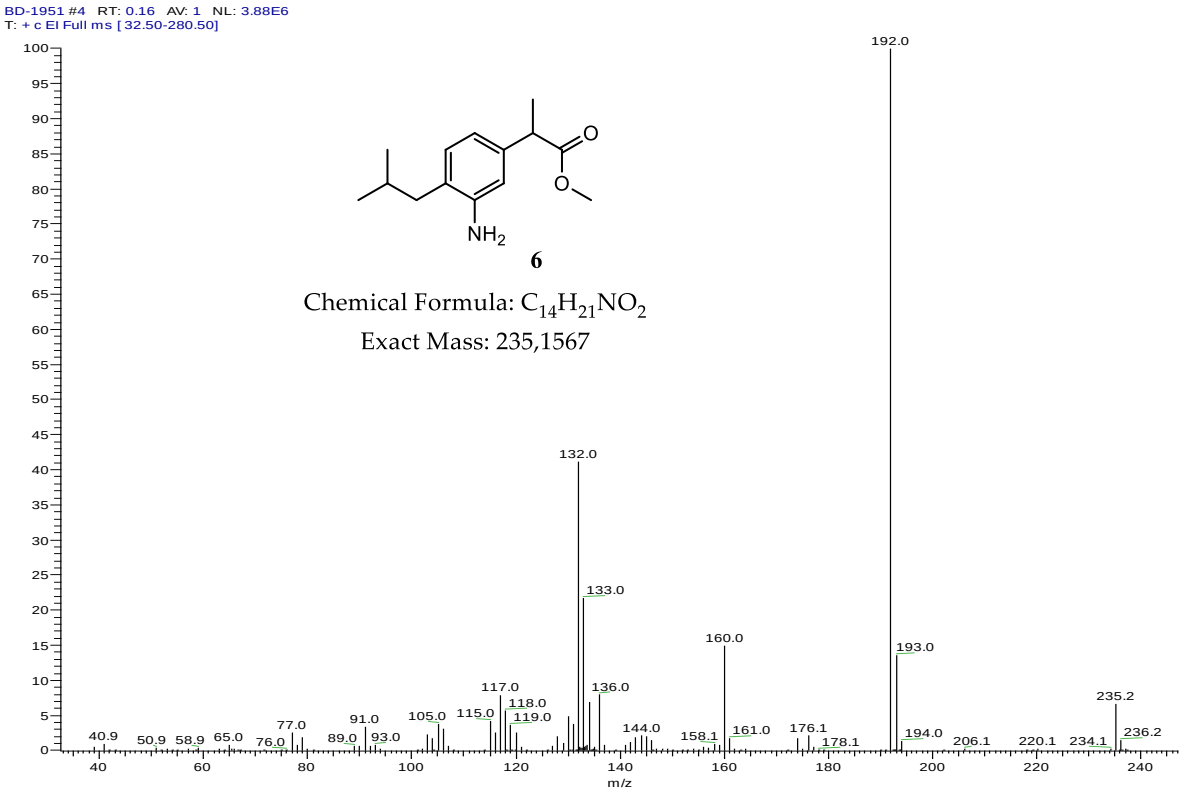


Figure S24. HRMS spectrum of compound **6.**