Supporting information

[2+2+2] Cyclotrimerization with Propargyl Halides as Co-partners: Formal Total Synthesis of Anti-tumor Hsp90 Inhibitor AT13387

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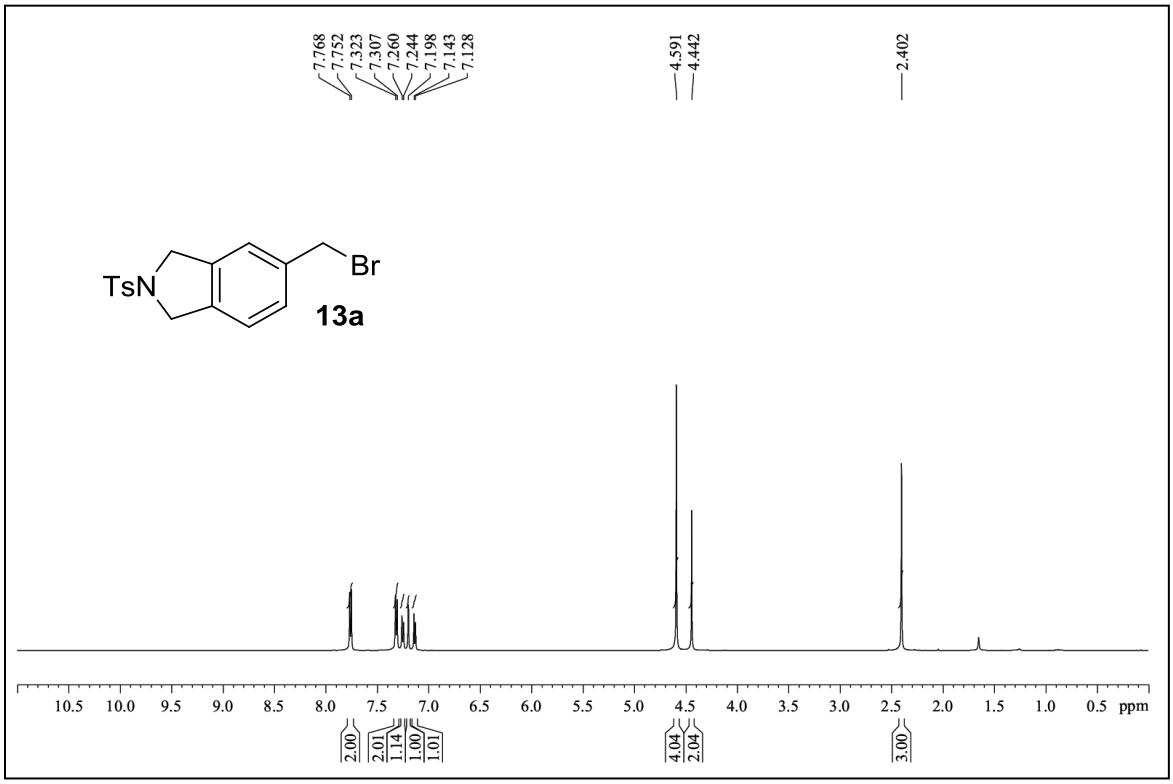

Figure S1: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **13a**

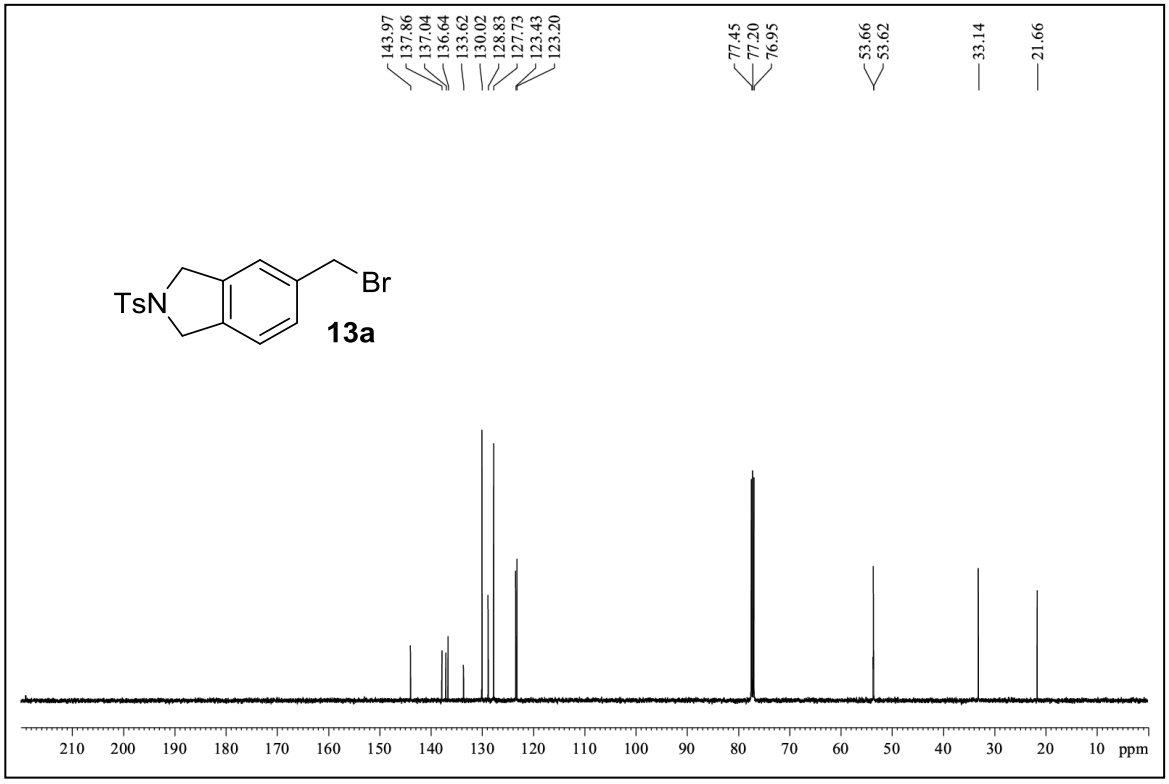

Figure S2: ^{13}C NMR (125 MHz, $CDCl_3$) of compound **13a**

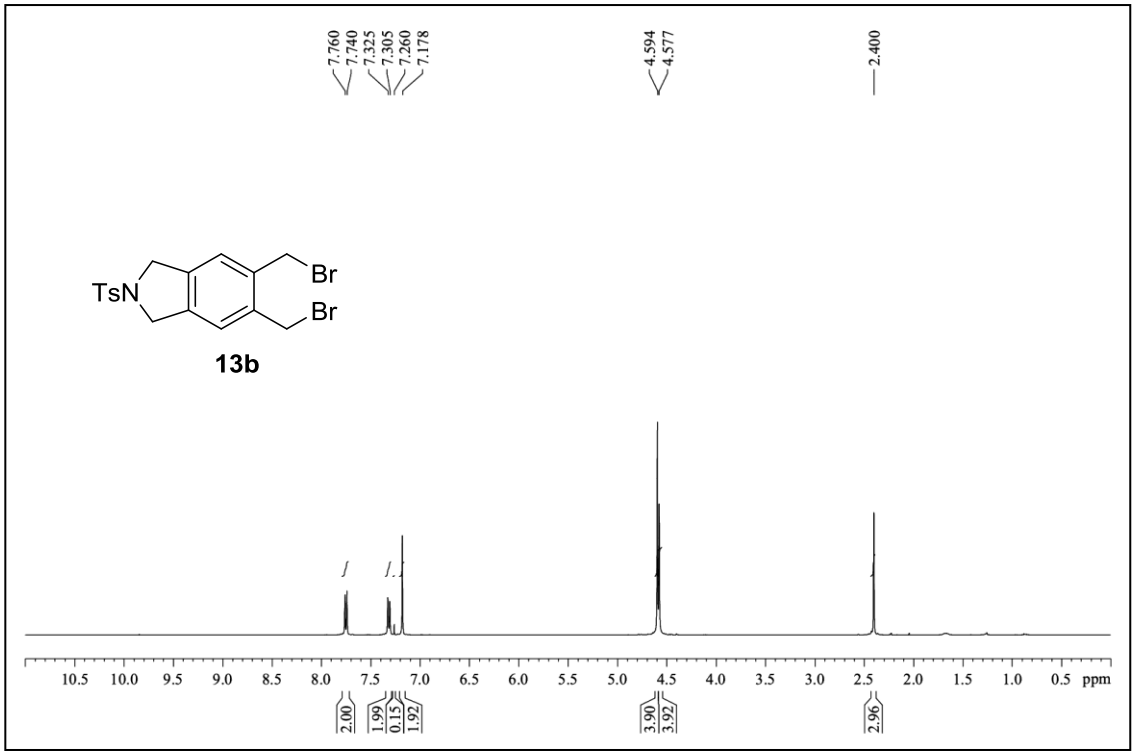

Figure S3: ^{1}H NMR (400 MHz, $CDCl_3$) of compound **13b**

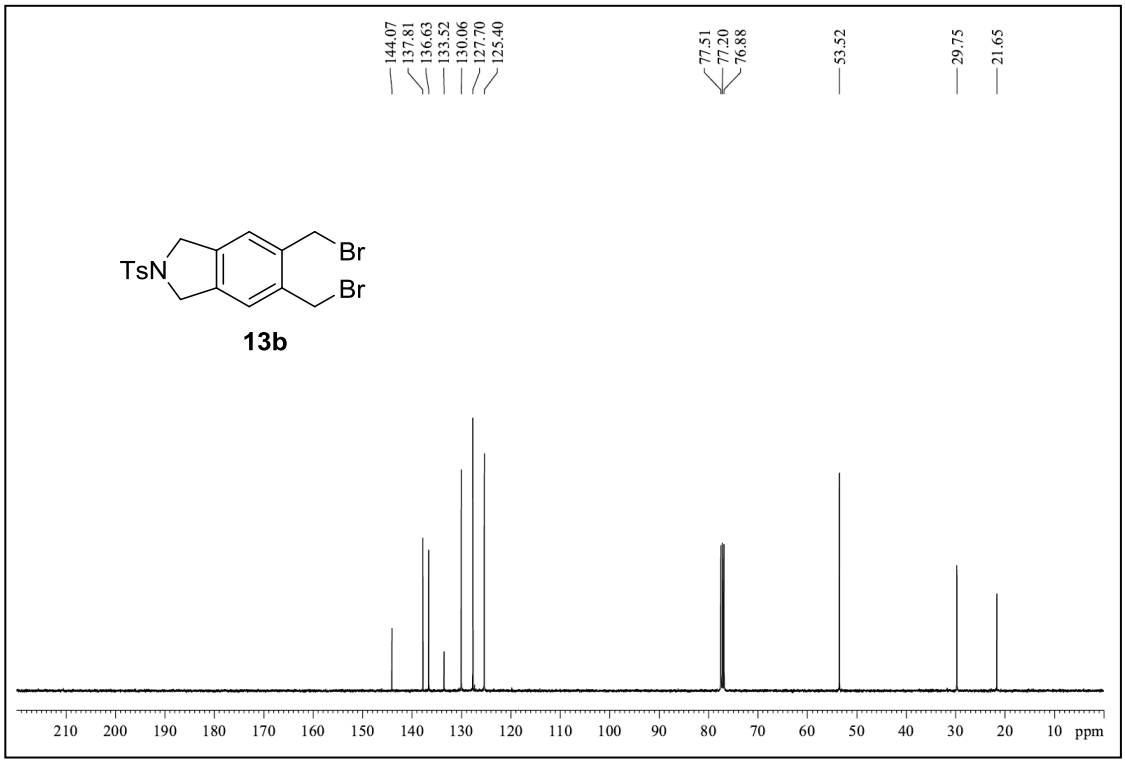

Figure S4: ^{13}C NMR (100 MHz, $CDCl_3$) of compound **13b**

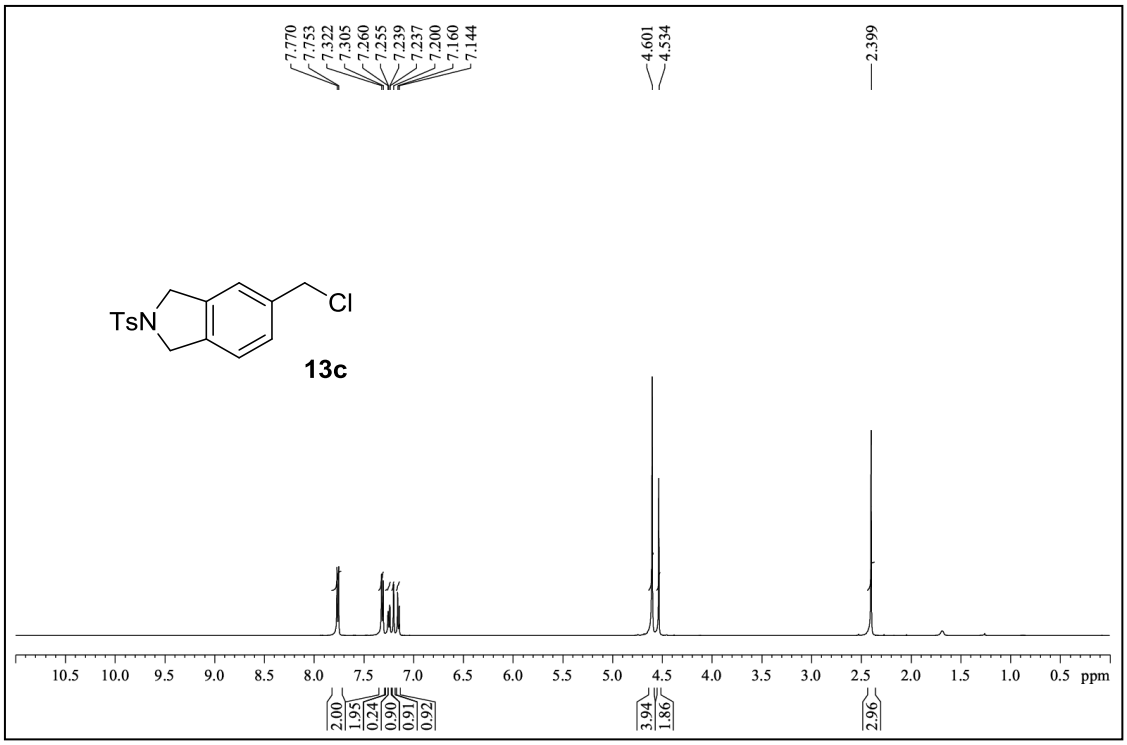

Figure S5: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **13c**

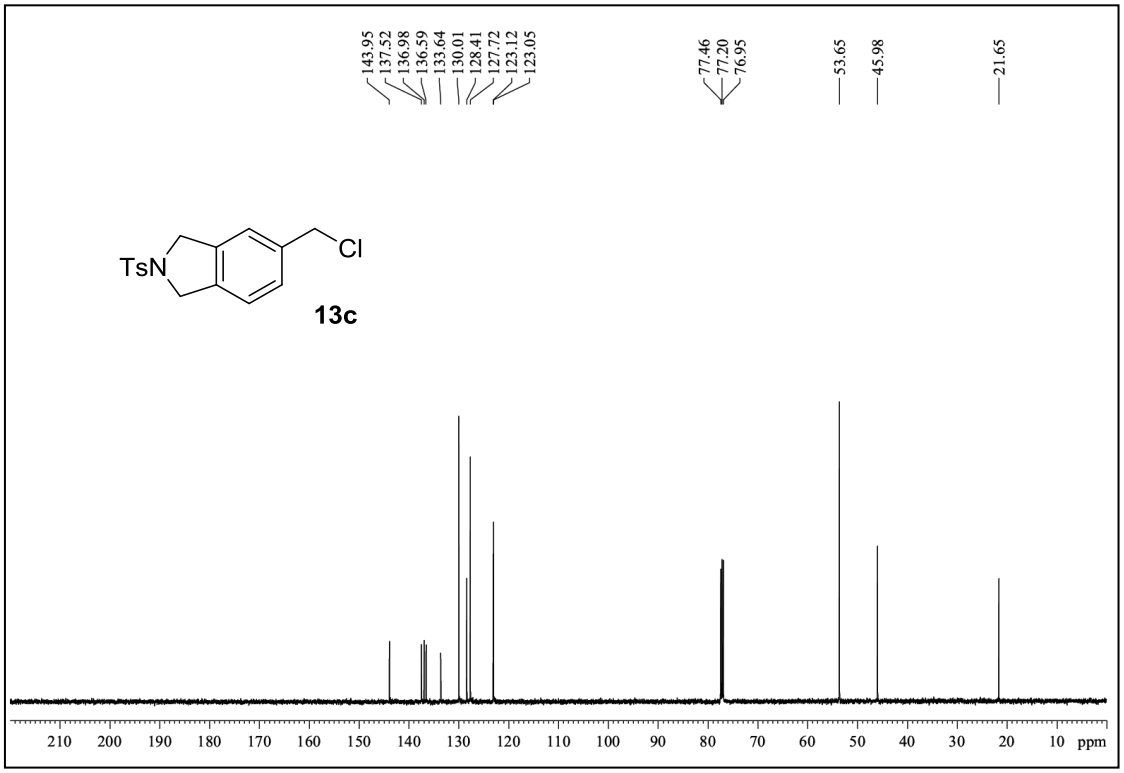

Figure S6: ^{13}C NMR (125 MHz, $CDCl_3$) of compound **13c**

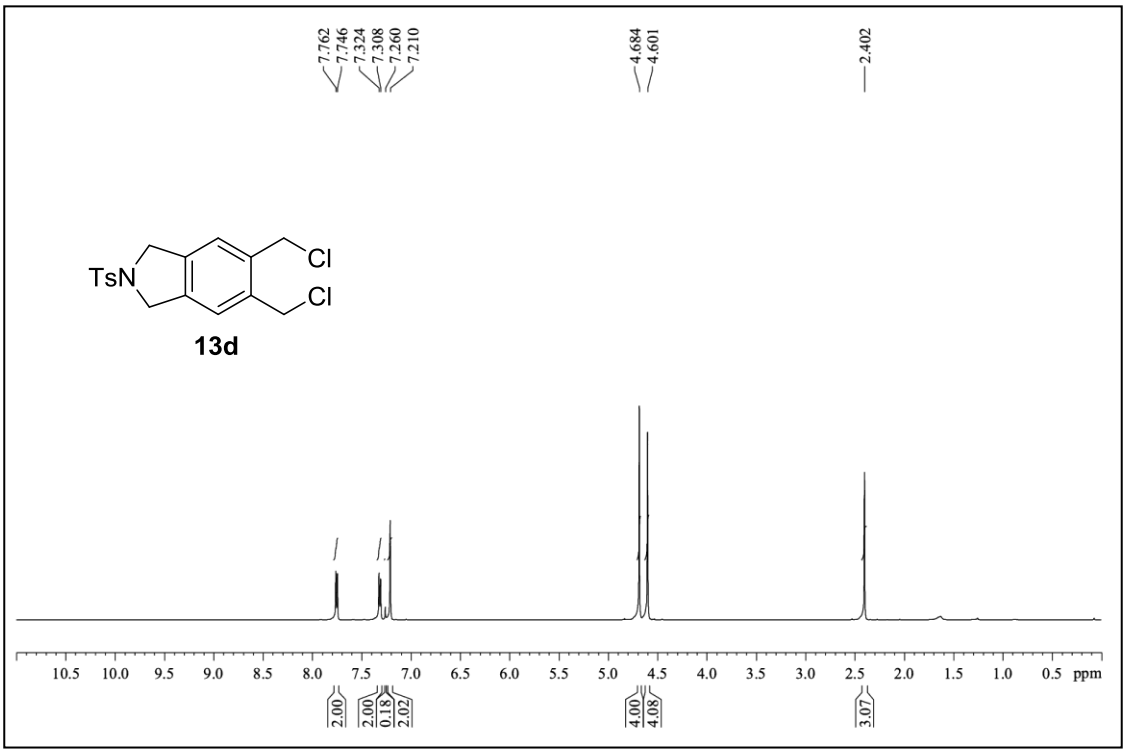

Figure S7: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **13d**

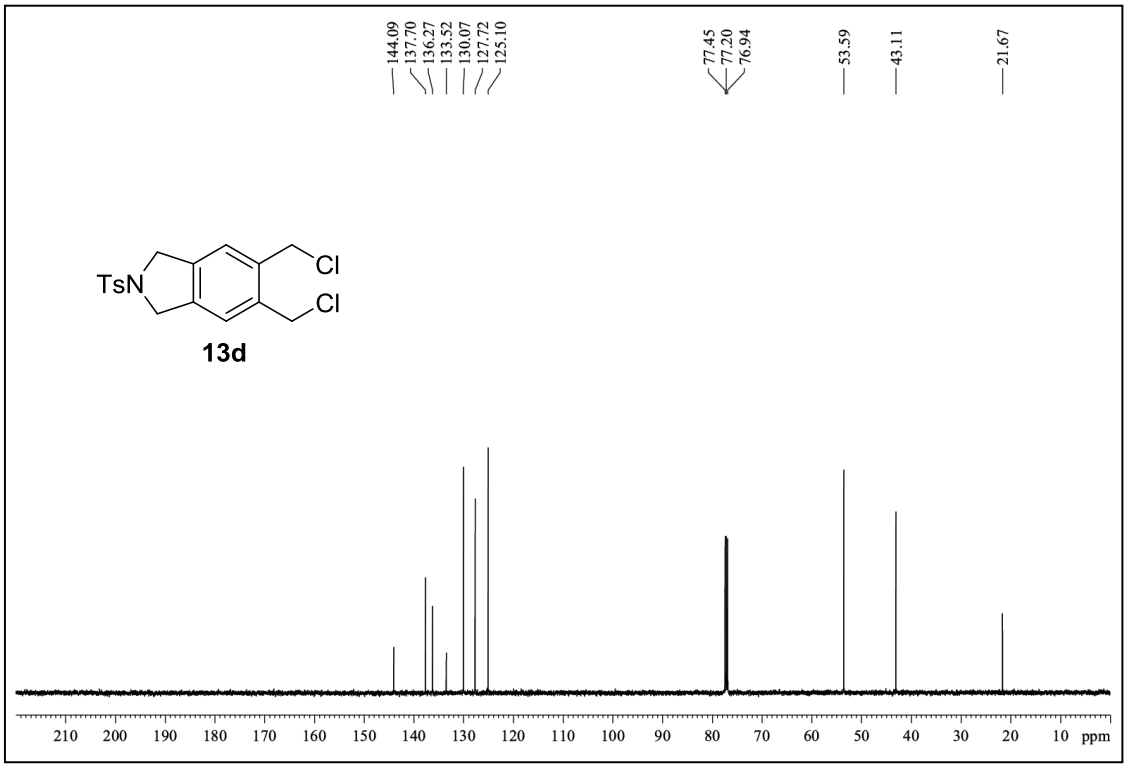

Figure S8: ^{13}C NMR (125 MHz, $CDCl_3$) of compound **13d**

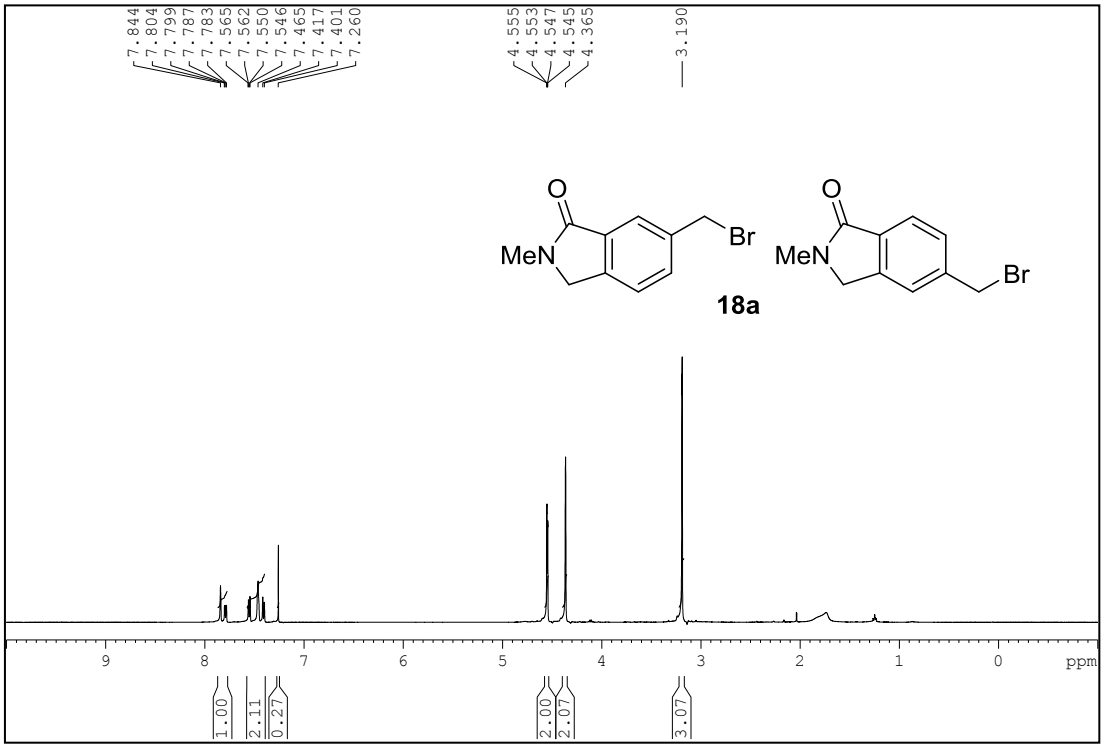

Figure S9: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **18a**

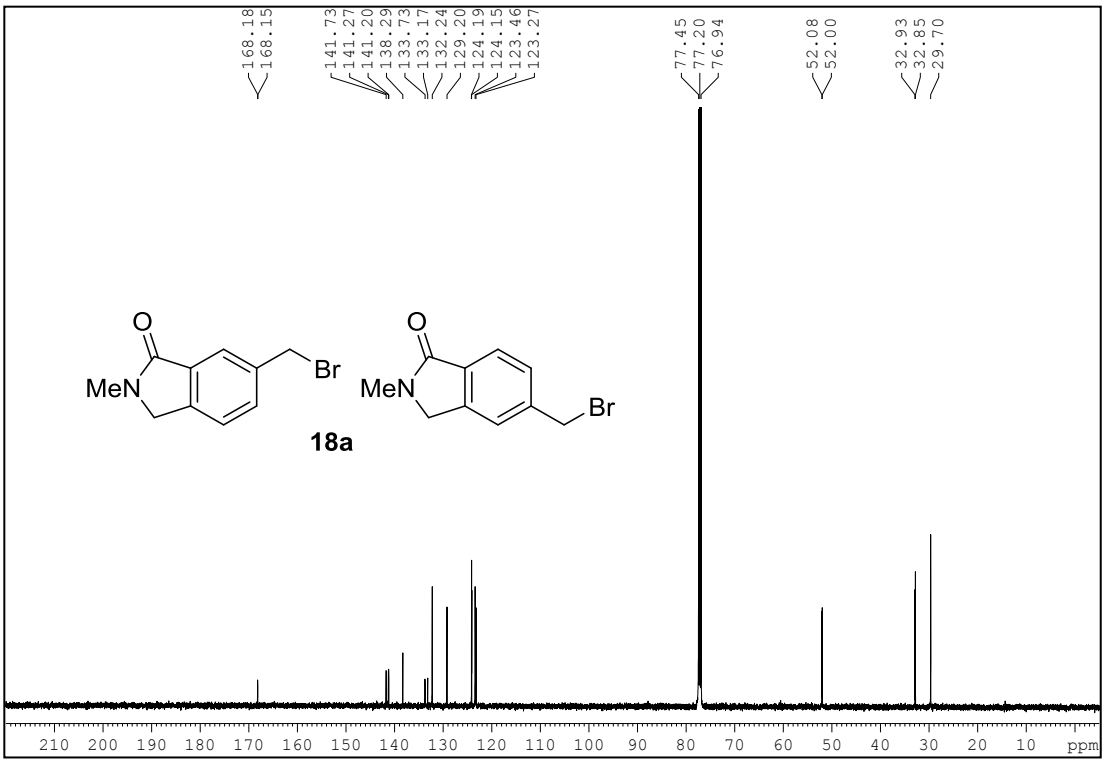

Figure S10: ^{13}C NMR (125 MHz, $CDCl_3$) of compound **18a**

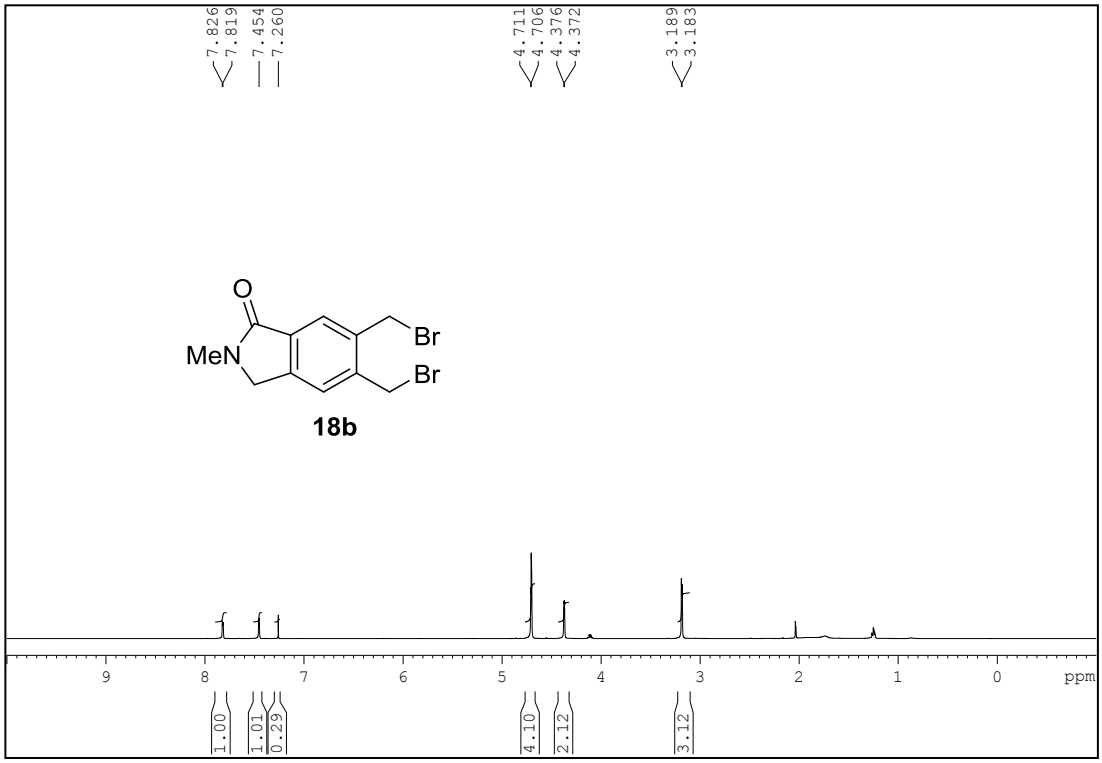

Figure S11: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **18b**

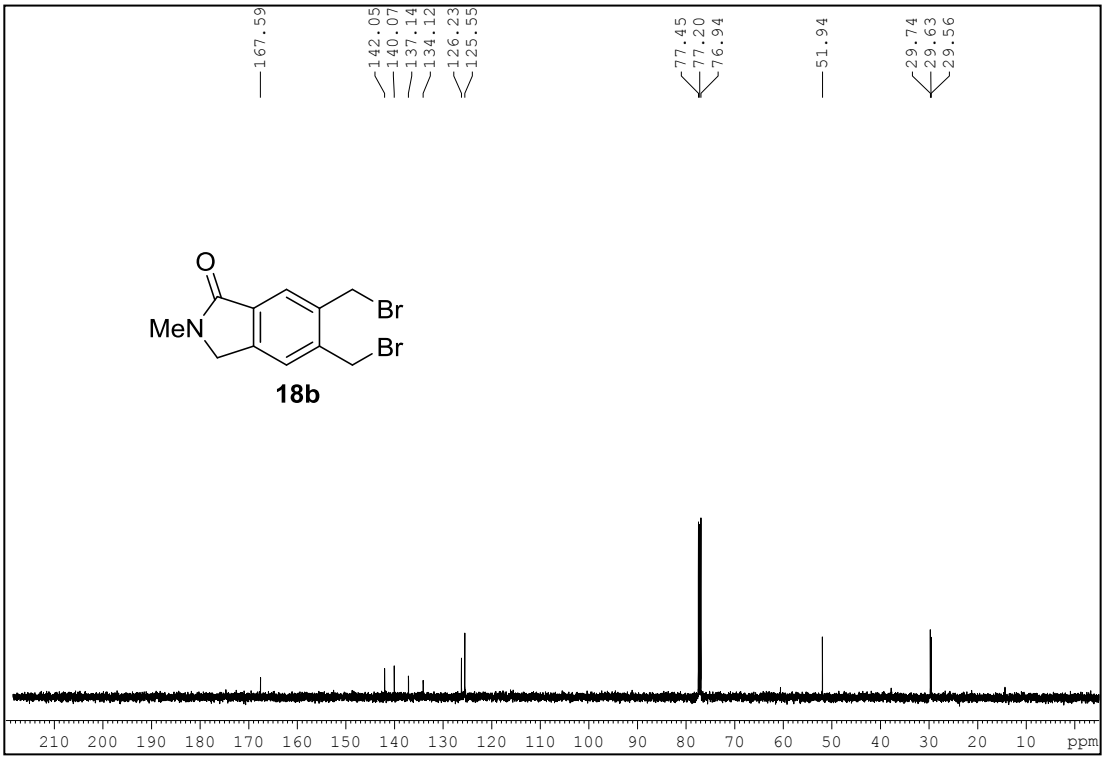

Figure S12: ^{13}C NMR (100 MHz, $CDCl_3$) of compound **18b**

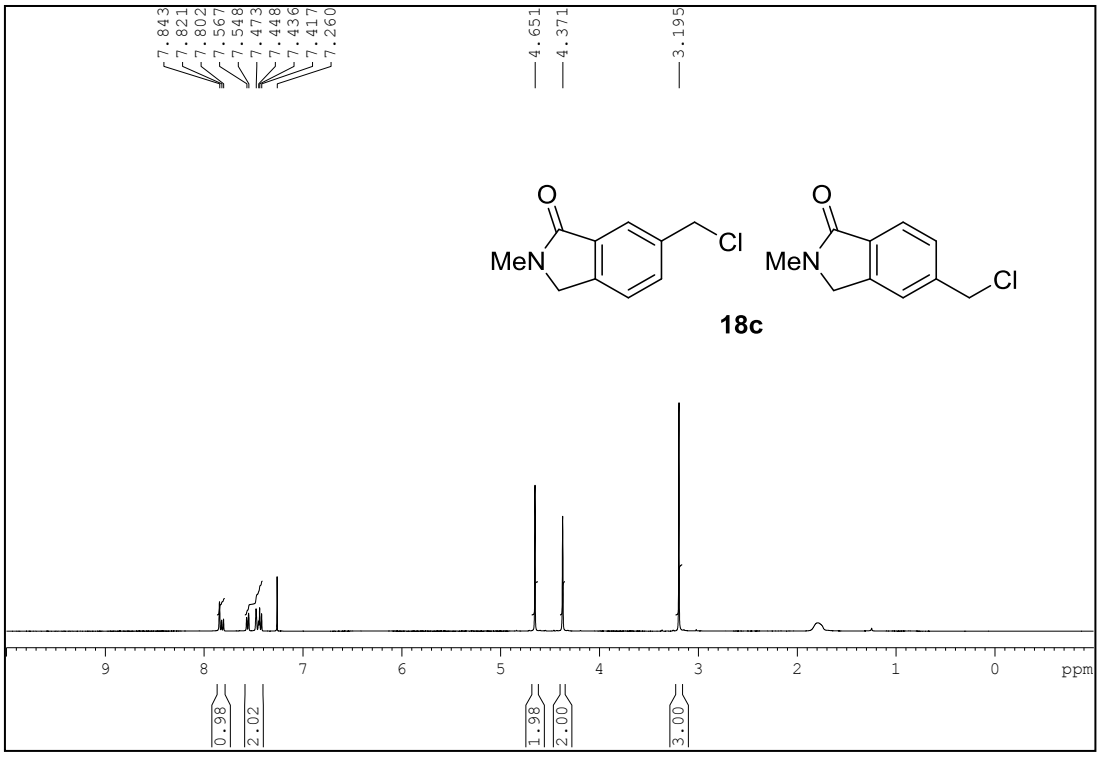

Figure S13: ^{1}H NMR (400 MHz, $CDCl_3$) of compound **18c**

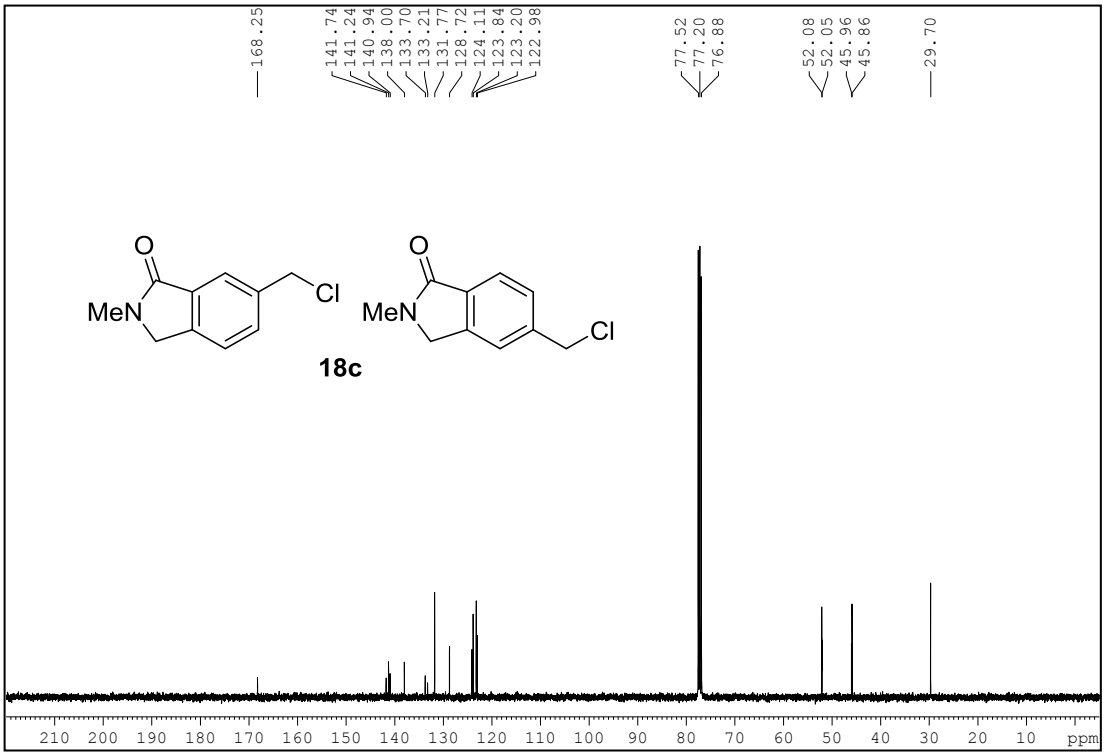

Figure S14: ^{13}C NMR (100 MHz, $CDCl_3$) of compound **18c**

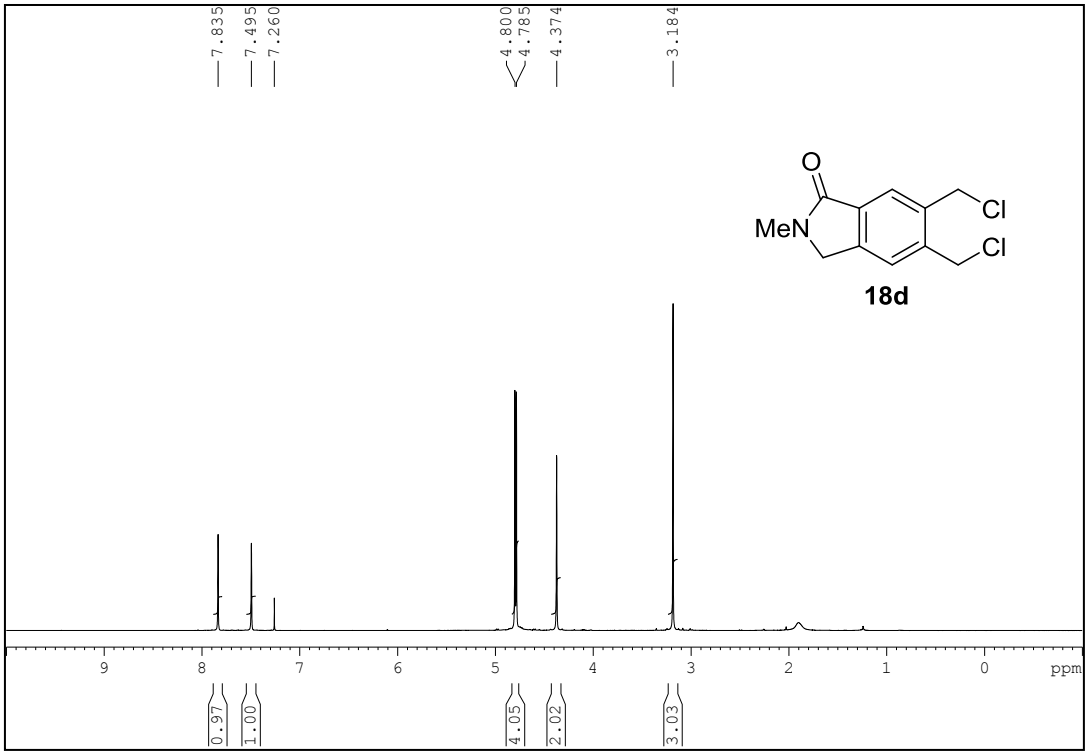

Figure S15: ^{1}H NMR (400 MHz, $CDCl_3$) of compound **18d**

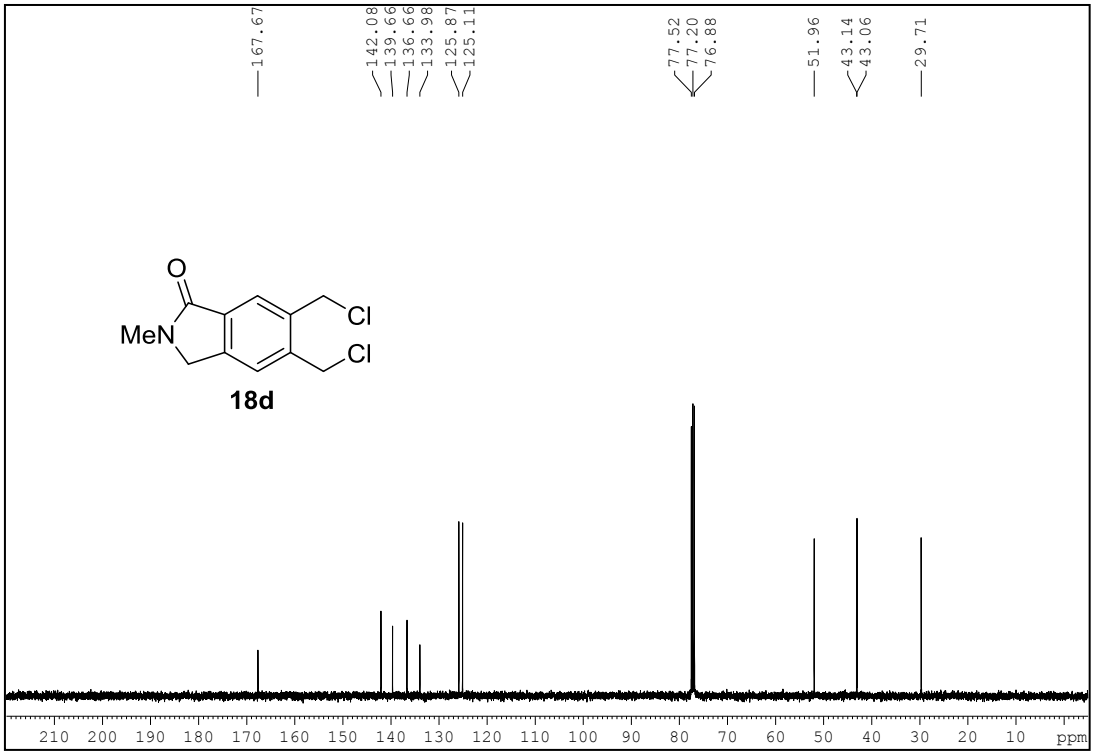

Figure S16: ^{13}C NMR (100 MHz, $CDCl_3$) of compound **18d**

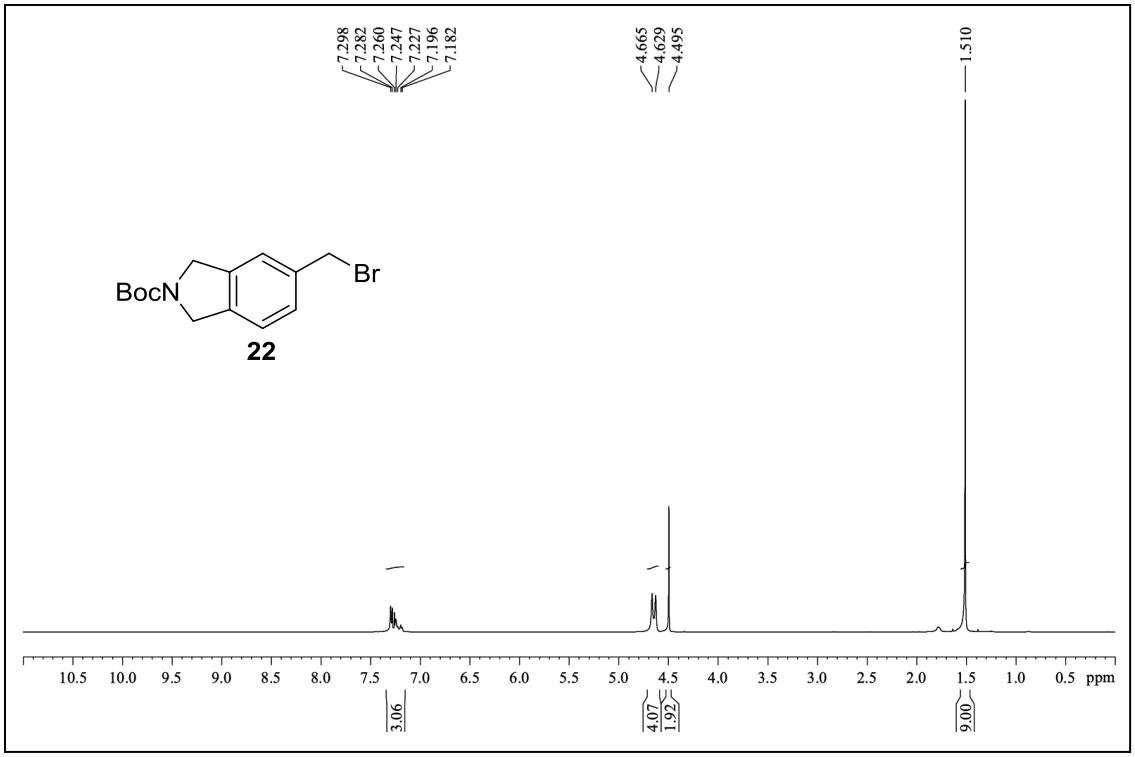

Figure S17: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **22**

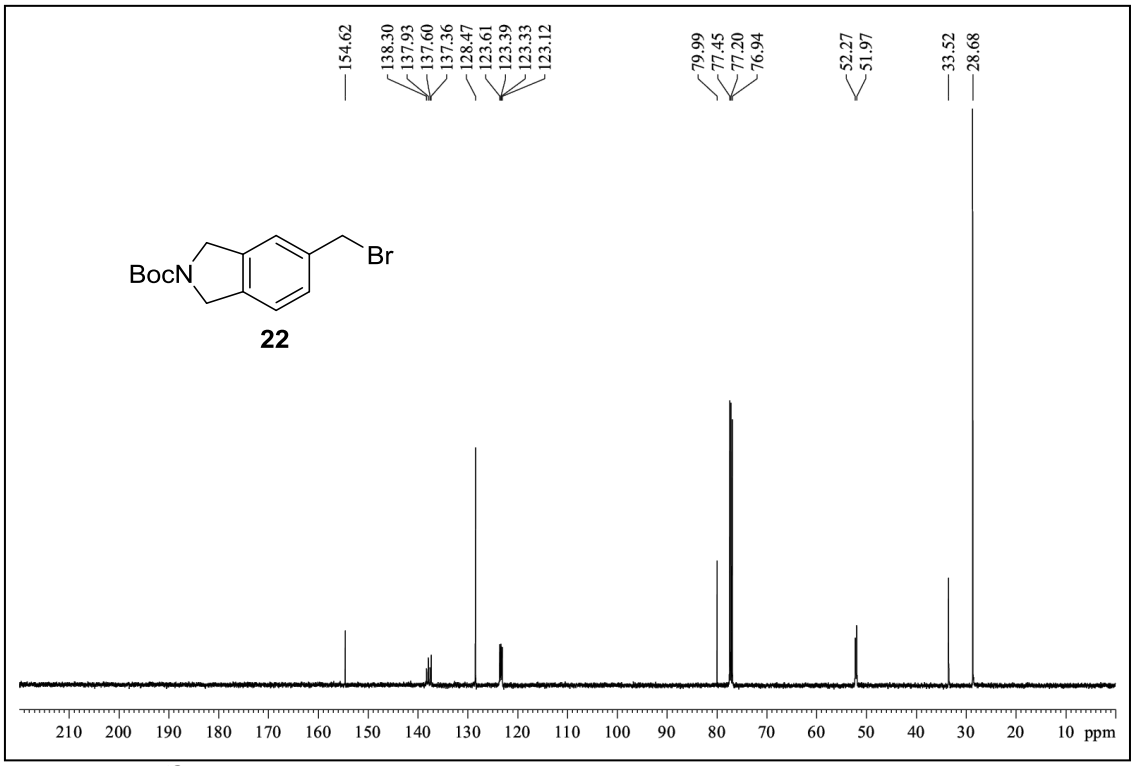

Figure S18: ^{13}C NMR (125 MHz, $CDCl_3$) of compound **22**

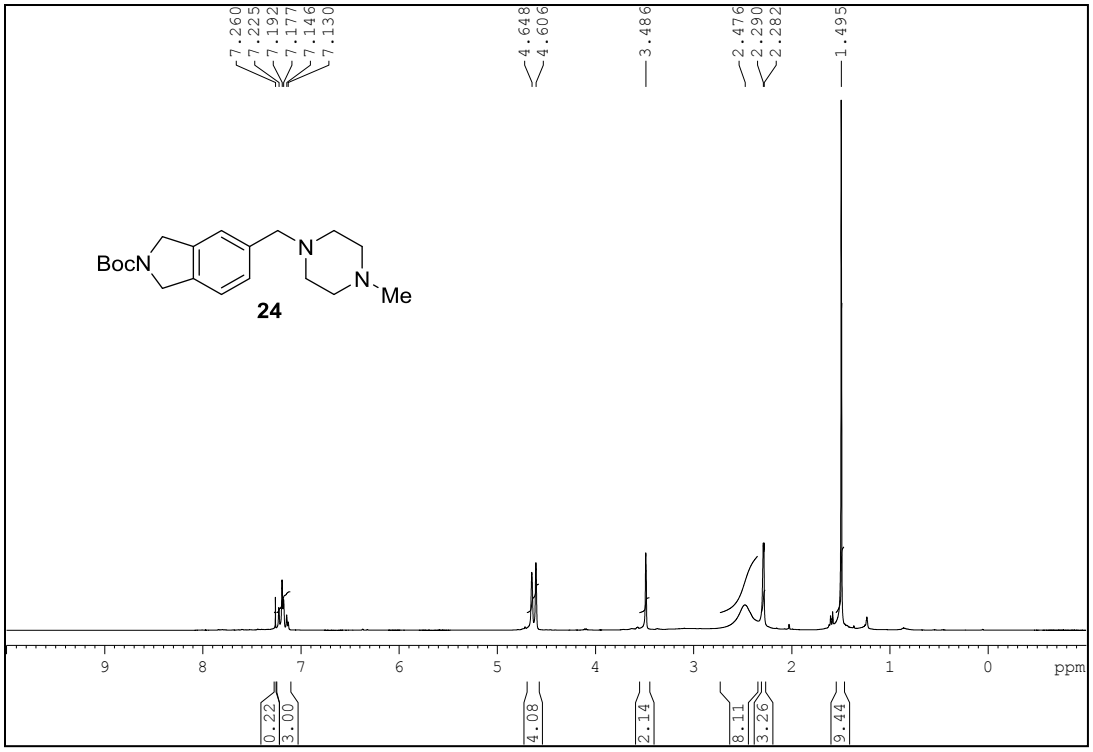

Figure S19: ^{1}H NMR (500 MHz, $CDCl_3$) of compound **24**

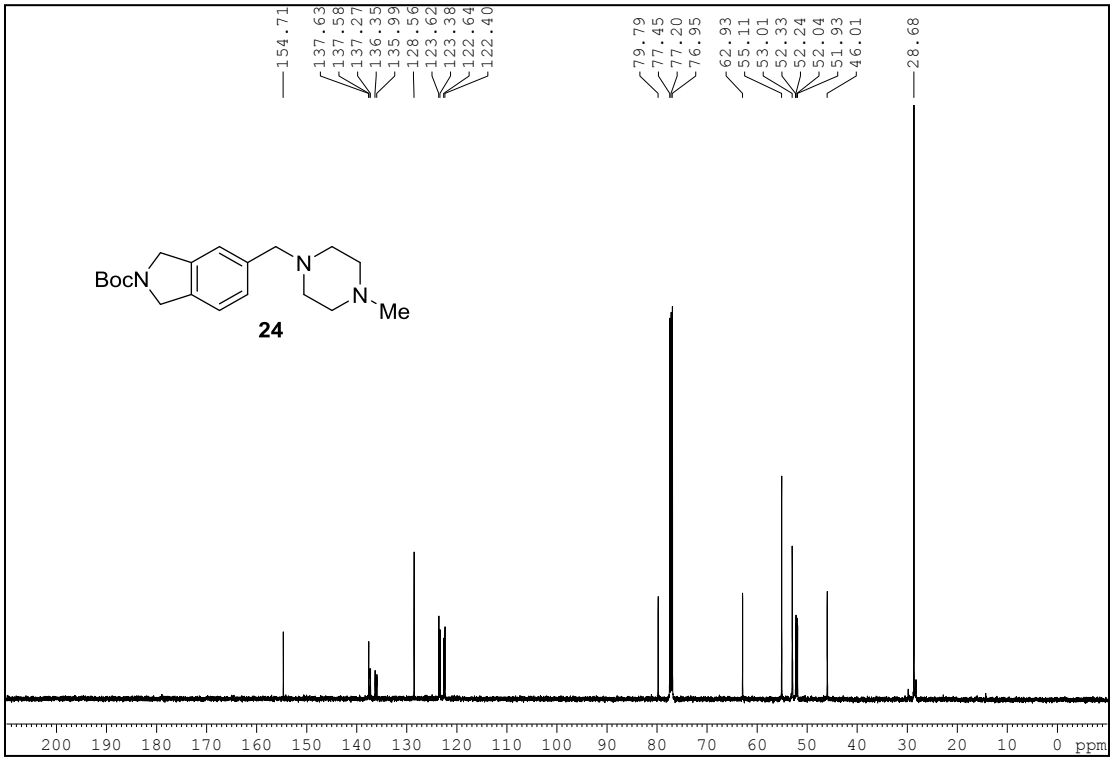

Figure S20: ^{13}C NMR (125 MHz, $CDCl_3$) of compound **24**