

Supporting Information

For

The Formation of 7-Membered Heterocycles under Mild Pictet-Spengler Conditions: A Route to Pyrazolo[3,4]benzodiazepines

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Proton and Carbon Spectra of:

Compound 2	S2
Compound 7a	S3
Compound 7b	S4
Compound 7c	S5
Compound 7d	S6
Compound 7e	S7
Compound 7f	S8
Compound 7g	S9
Compound 7h	S10
Compound 7i	S11
Compound 7j	S12
Compound 8a	S13
Compound 8b	S14
Compound 8c	S15
Compound 8d	S16
Compound 8e	S17
Compound 8f	S18
Compound 8g	S19
Compound 8h	S20
Compound 8j	S21
Compound 8k	S22
Compound 8m	S23
Compound 8n	S24

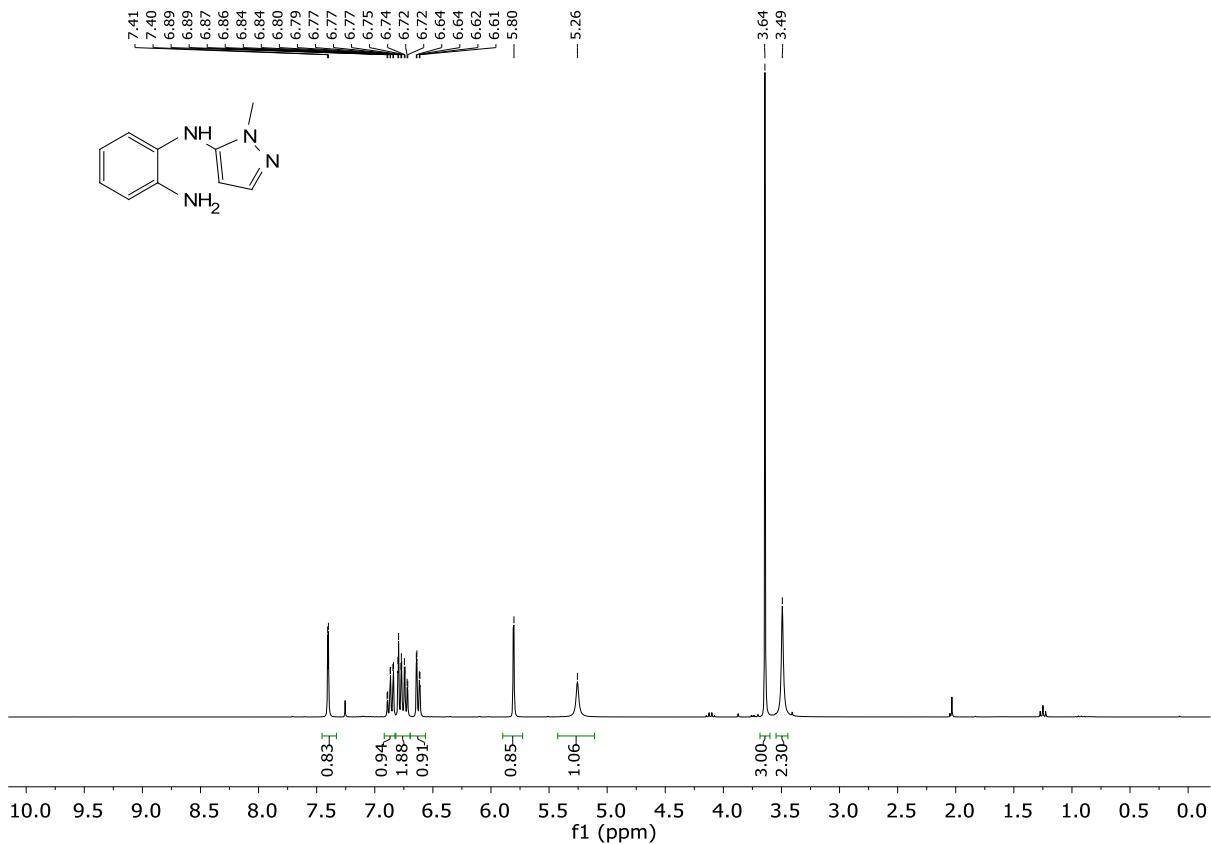


Figure S1 ^1H NMR spectrum of compound 2 in CDCl_3 (300 MHz)

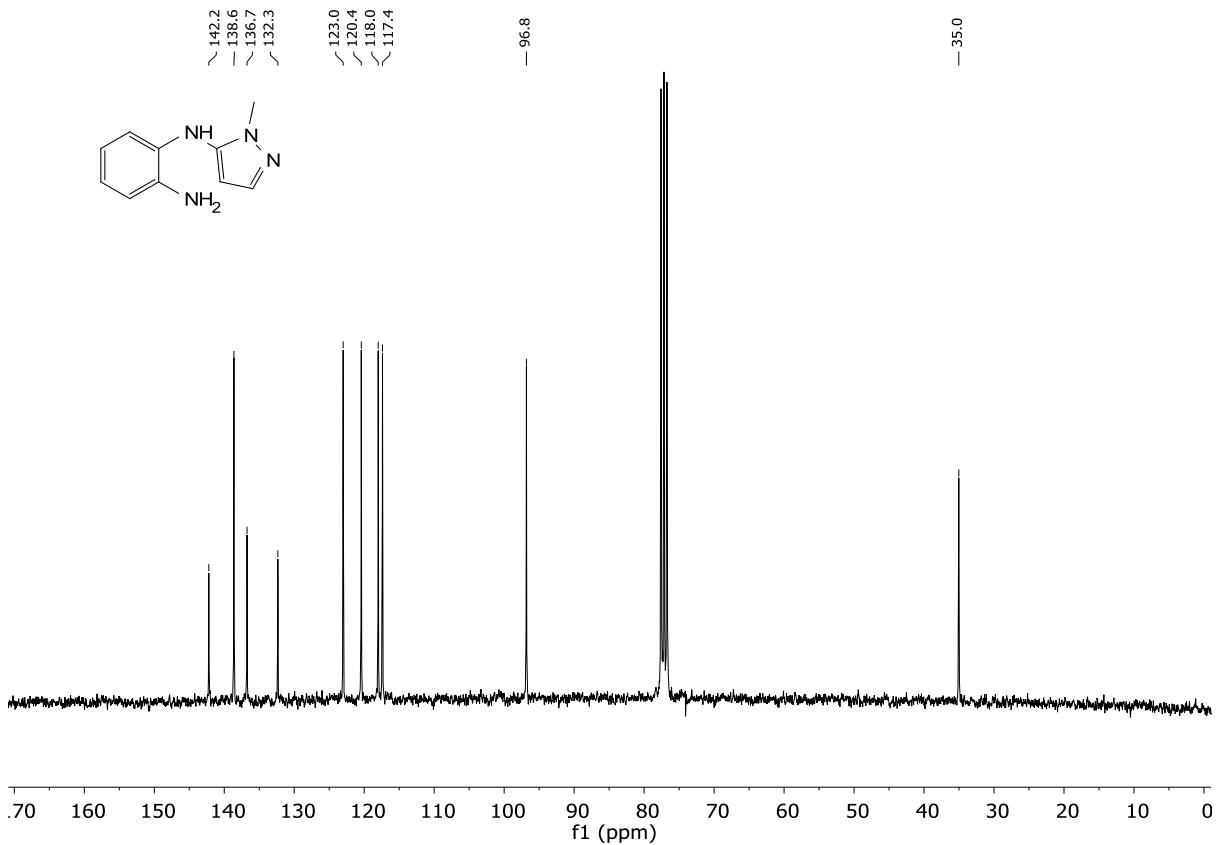


Figure S2 ^{13}C NMR spectrum of compound 2 in CDCl_3 (75 MHz)

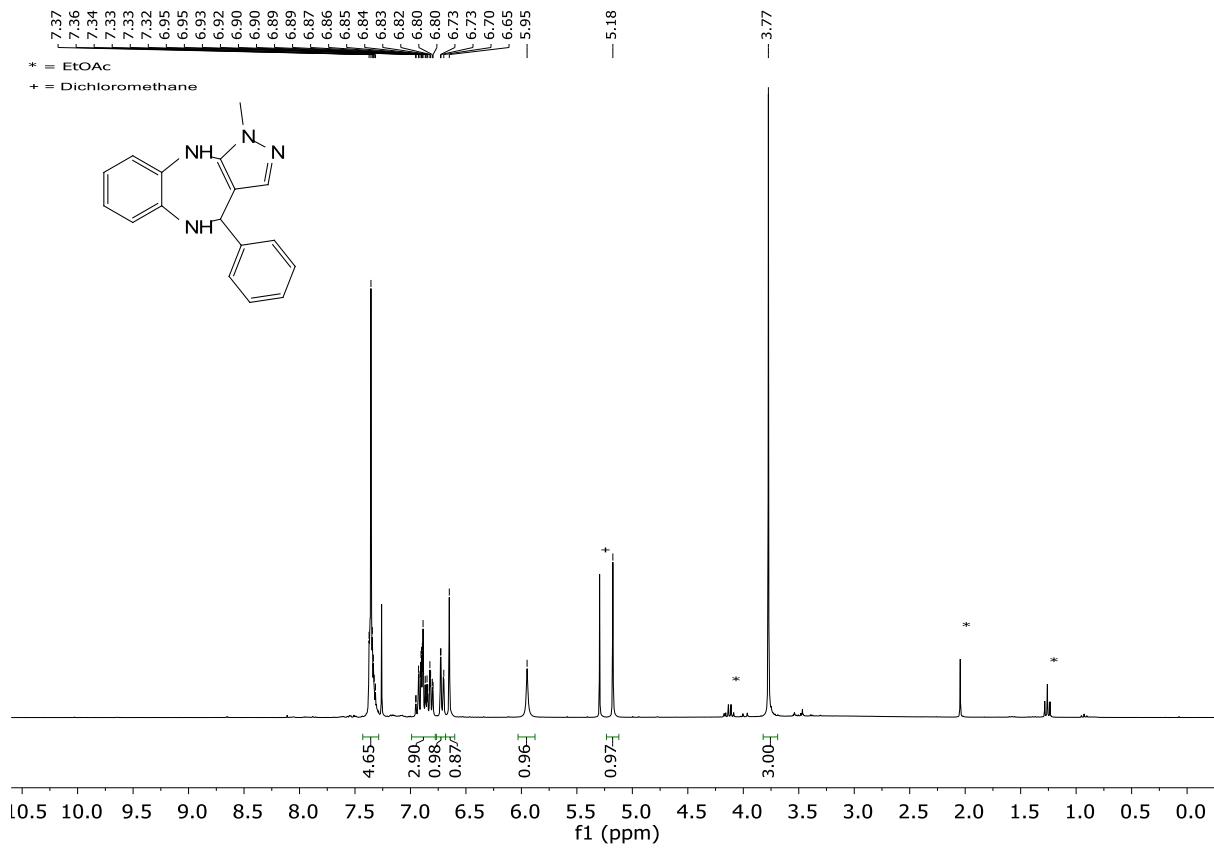


Figure S3 ^1H NMR spectrum of compound **7a** in CDCl_3 (300 MHz)

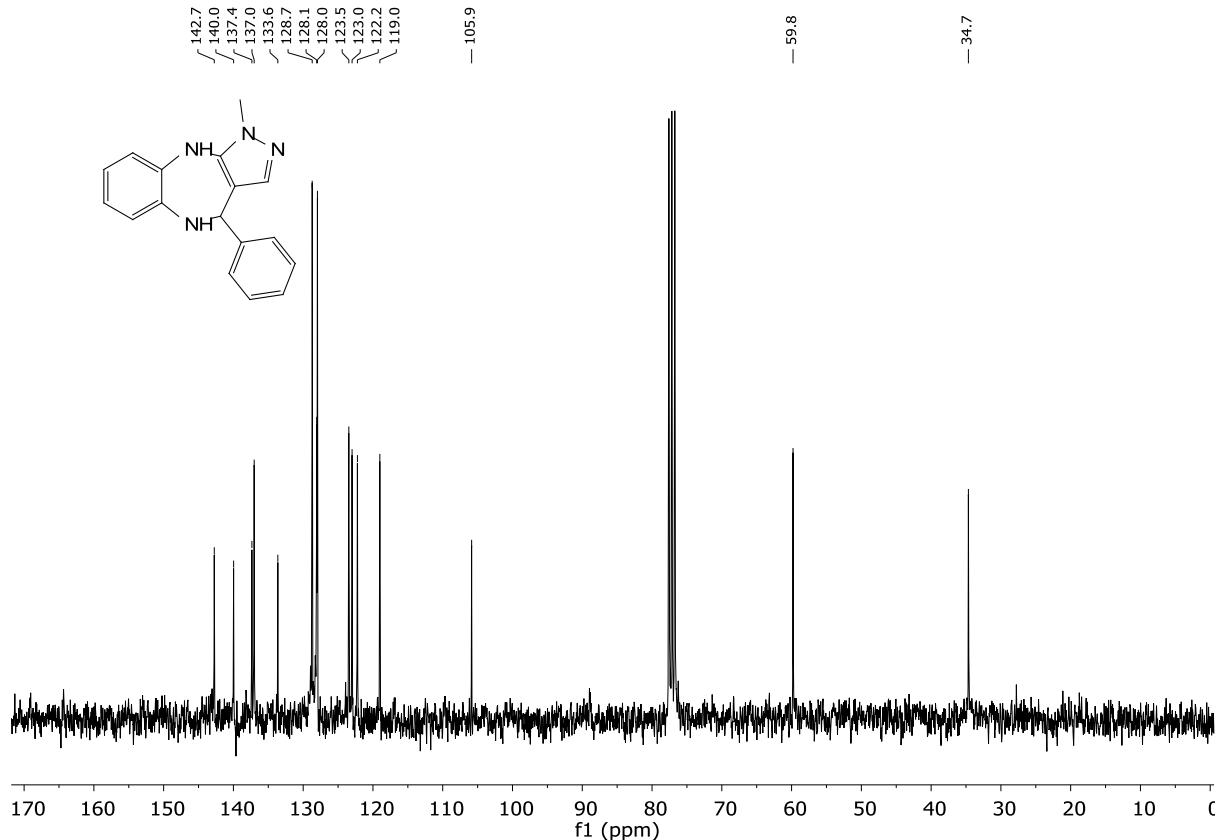


Figure S4 ^{13}C NMR spectrum of compound **7a** in CDCl_3 (75 MHz)

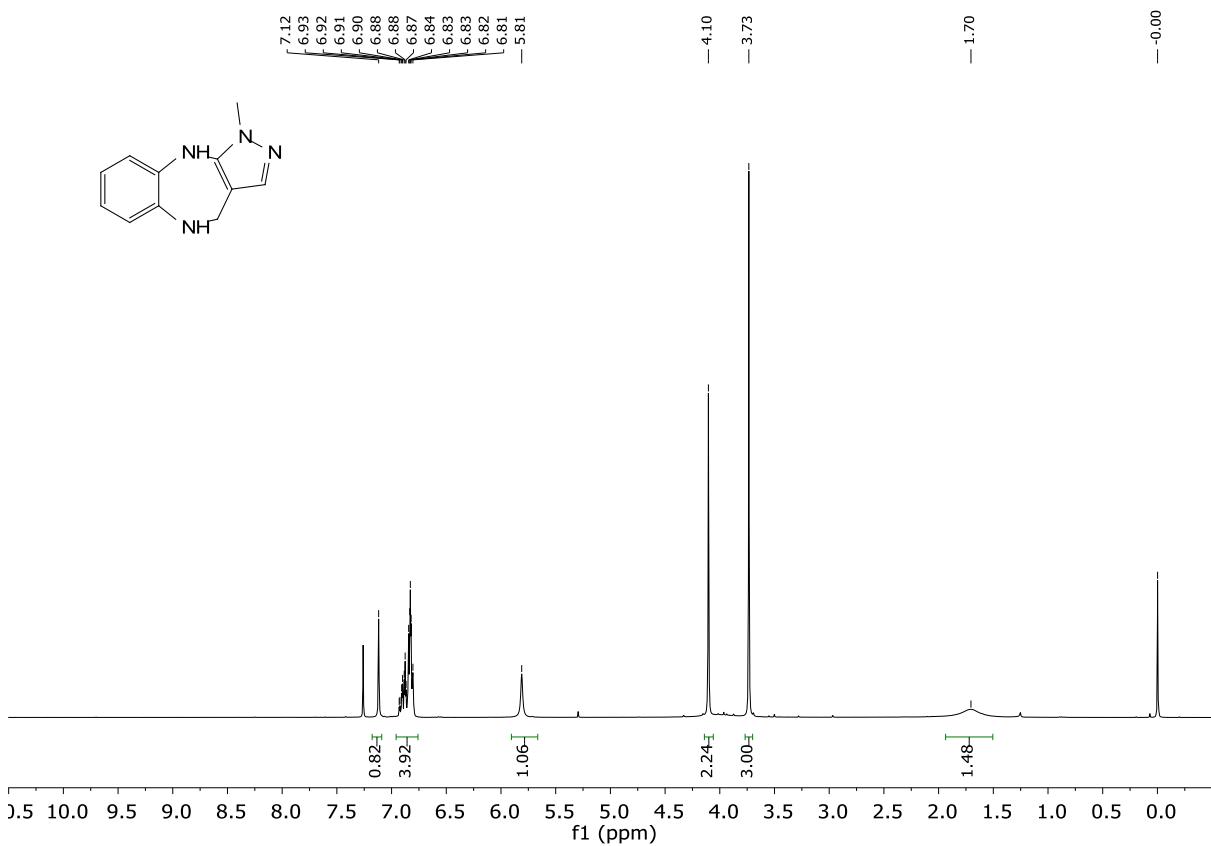


Figure S5 ^1H NMR spectrum of compound **7b** in CDCl_3 (300 MHz)

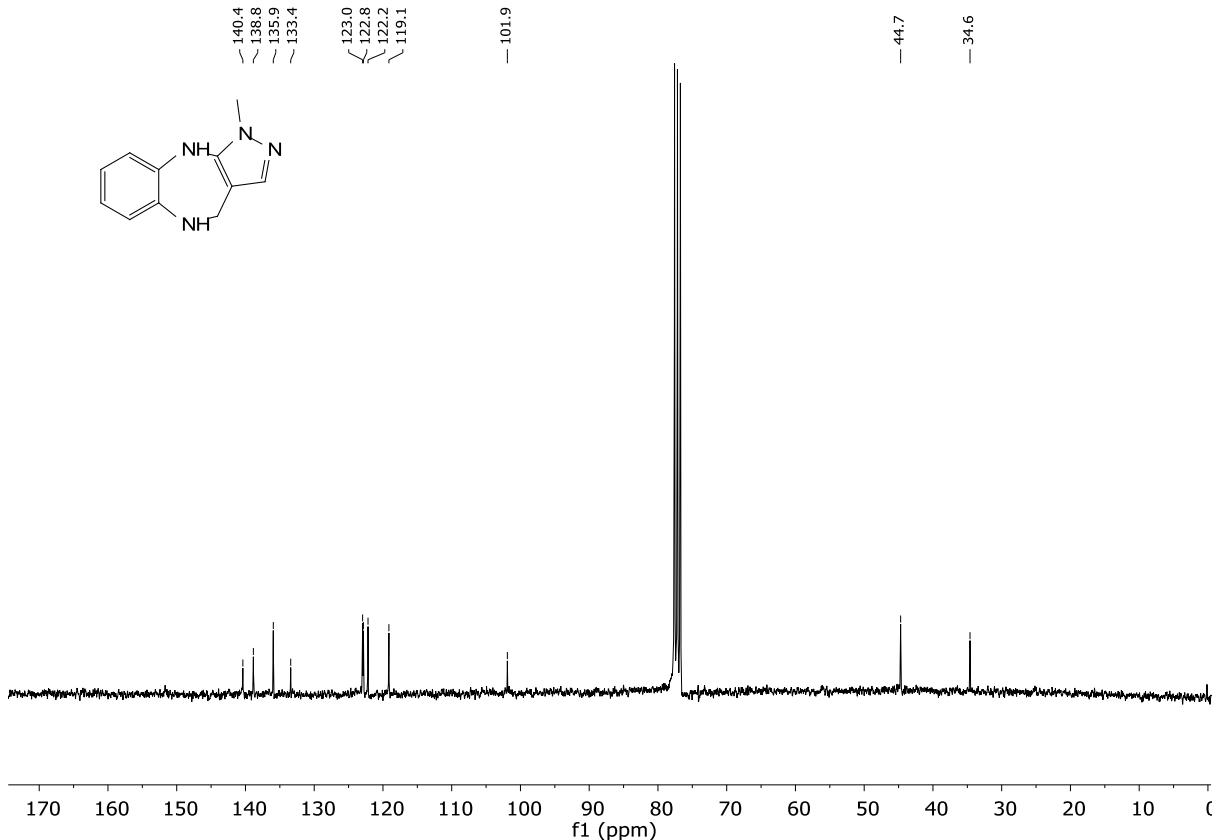


Figure S6 ^{13}C NMR spectrum of compound **7b** in CDCl_3 (75 MHz)

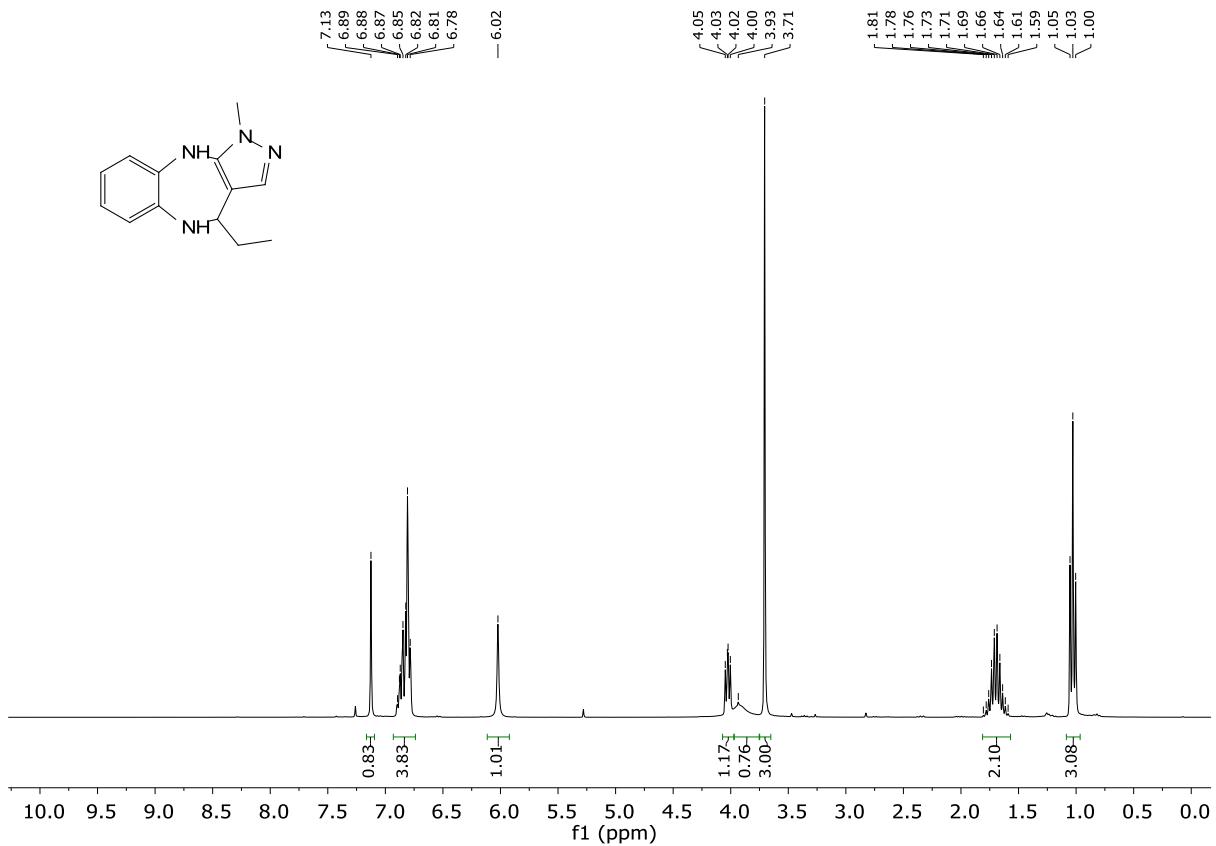


Figure S7 ^1H NMR spectrum of Compound **7c** in CDCl_3 (300 MHz)

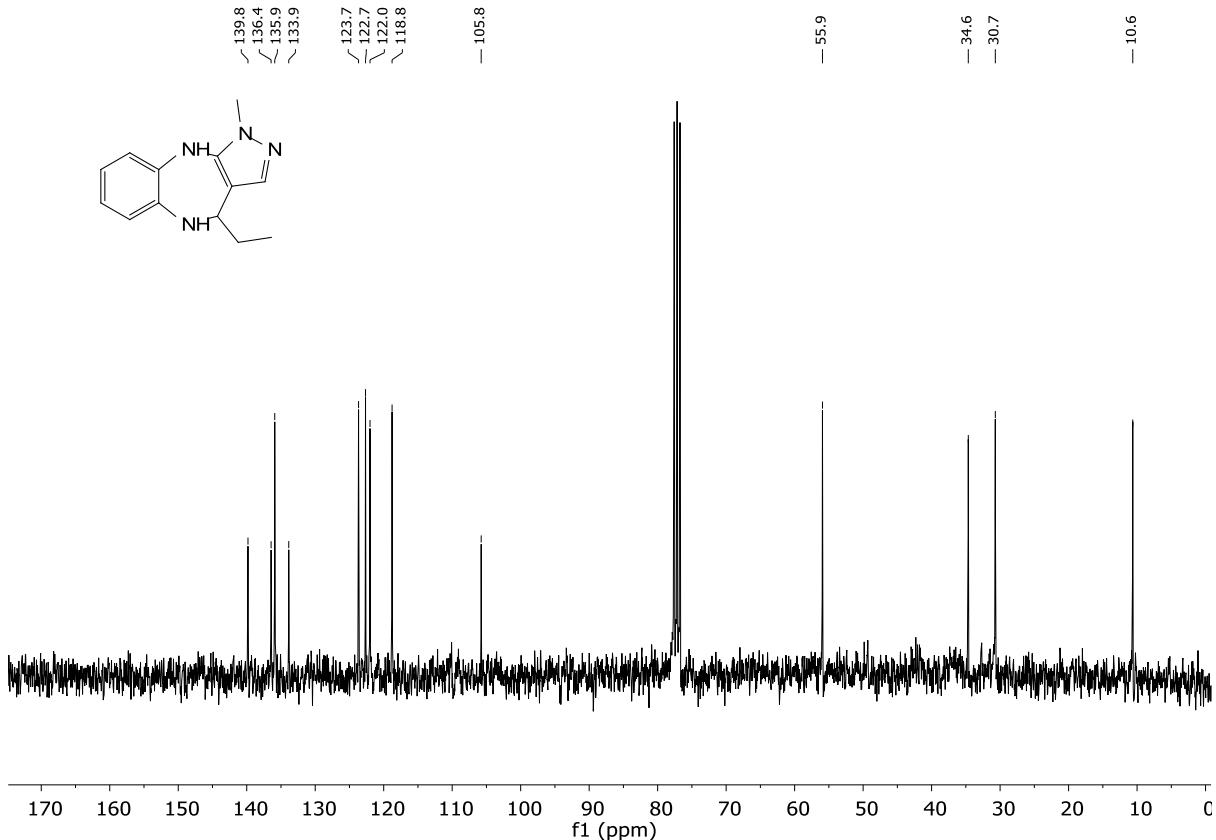


Figure S8 ^{13}C NMR spectrum of compound **7c** in CDCl_3 (75 MHz)

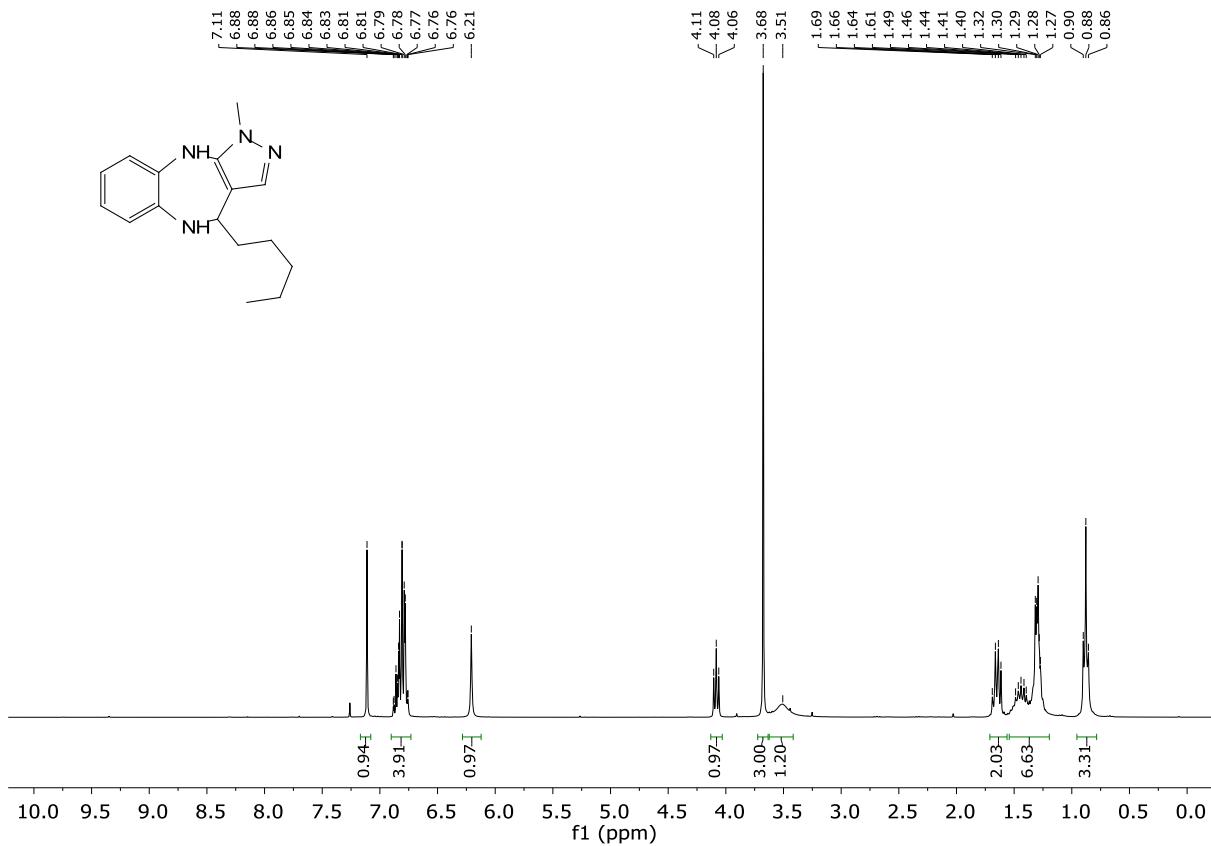


Figure S9 ^1H NMR spectrum of compound **7d** in CDCl_3 (300 MHz)

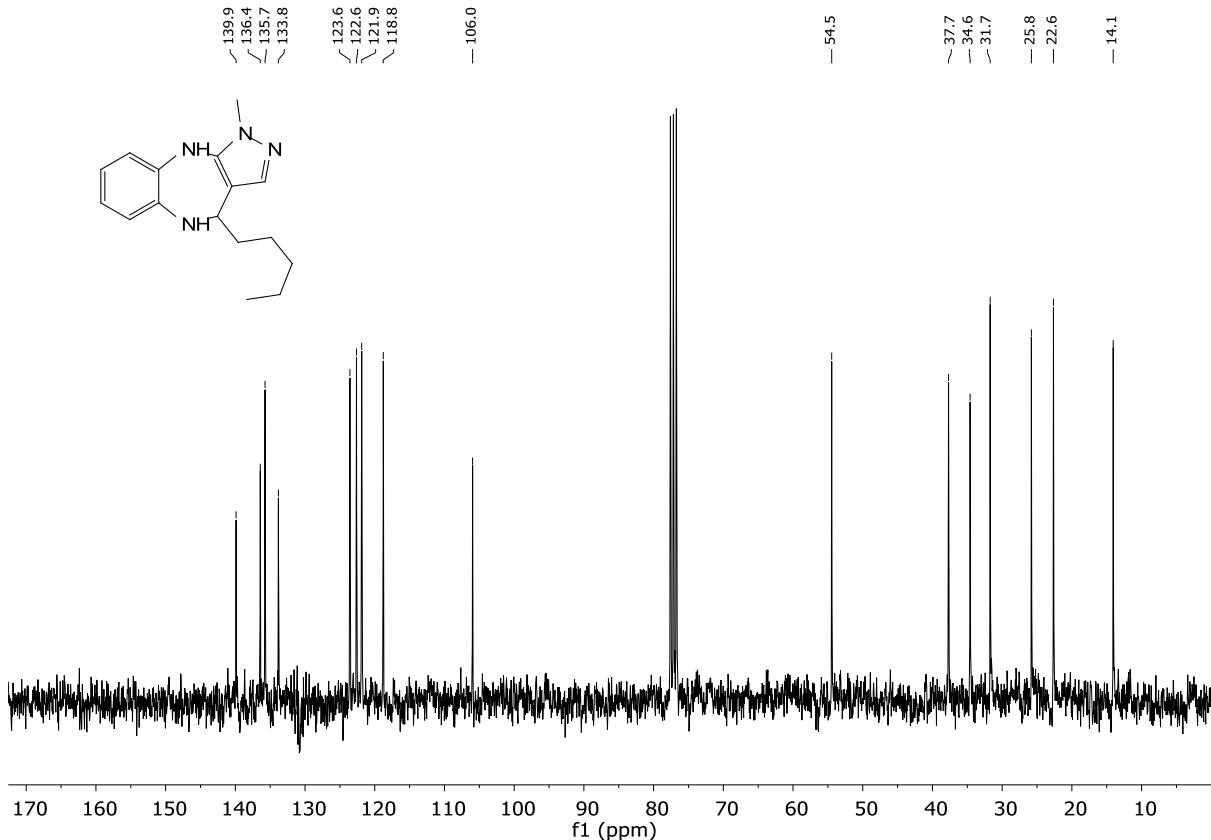


Figure S10 ^{13}C NMR spectrum of compound **7d** in CDCl_3 (75 MHz)

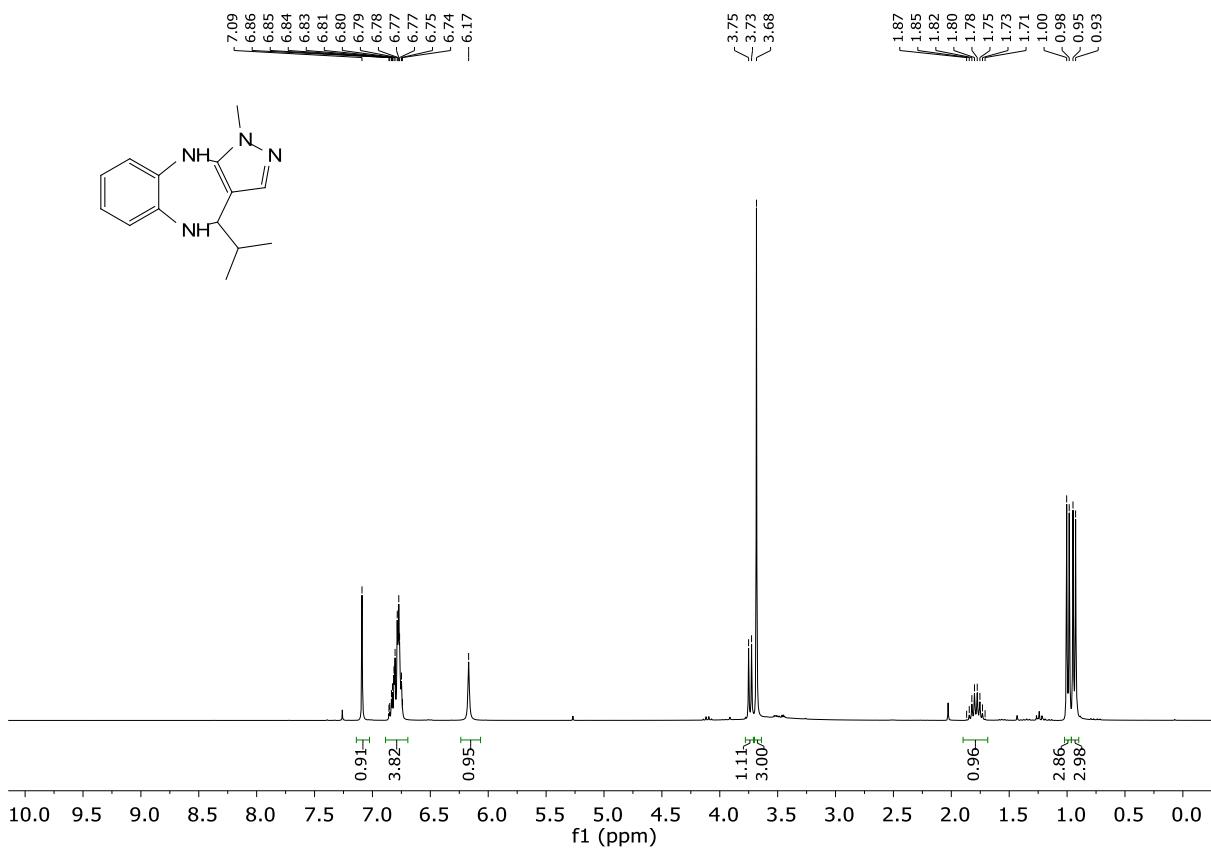


Figure S11 ^1H NMR spectrum of compound **7e** in CDCl_3 (300 MHz)

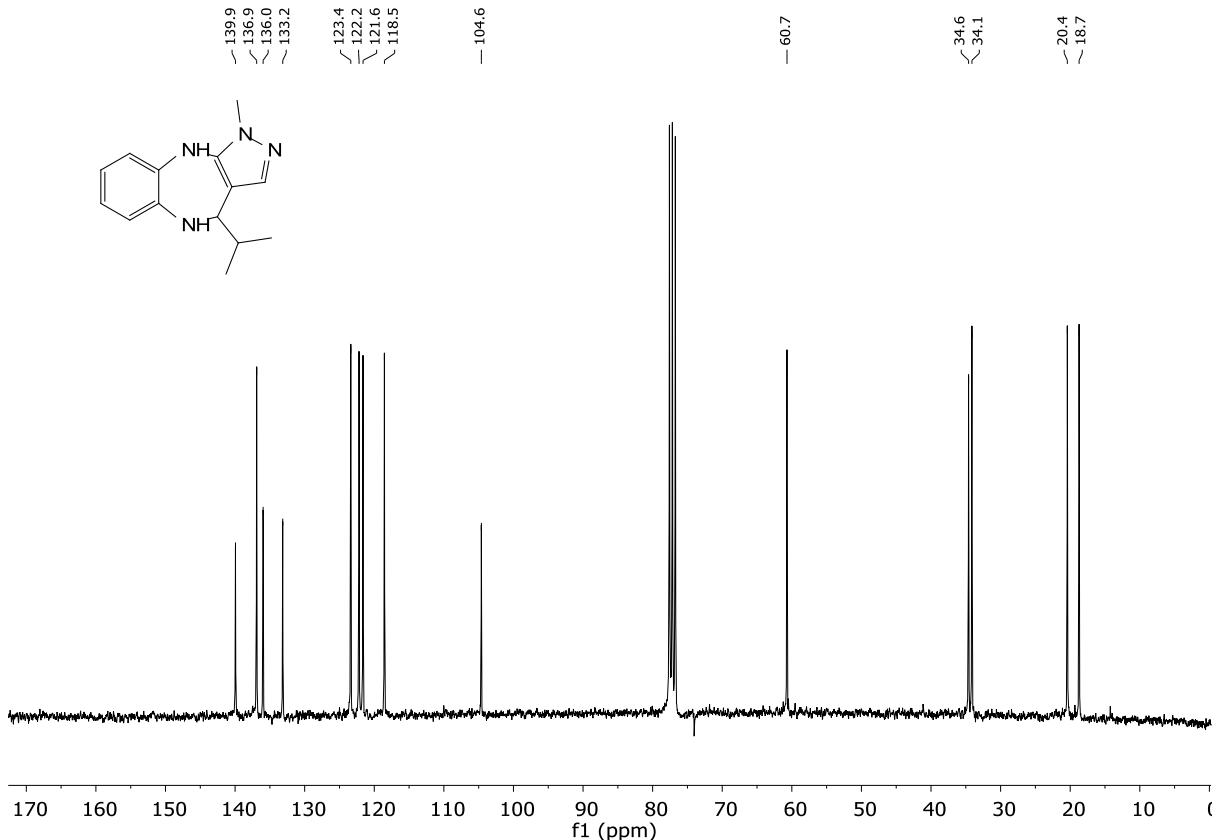


Figure S12 ^{13}C NMR spectrum of compound **7e** in CDCl_3 (75 MHz)

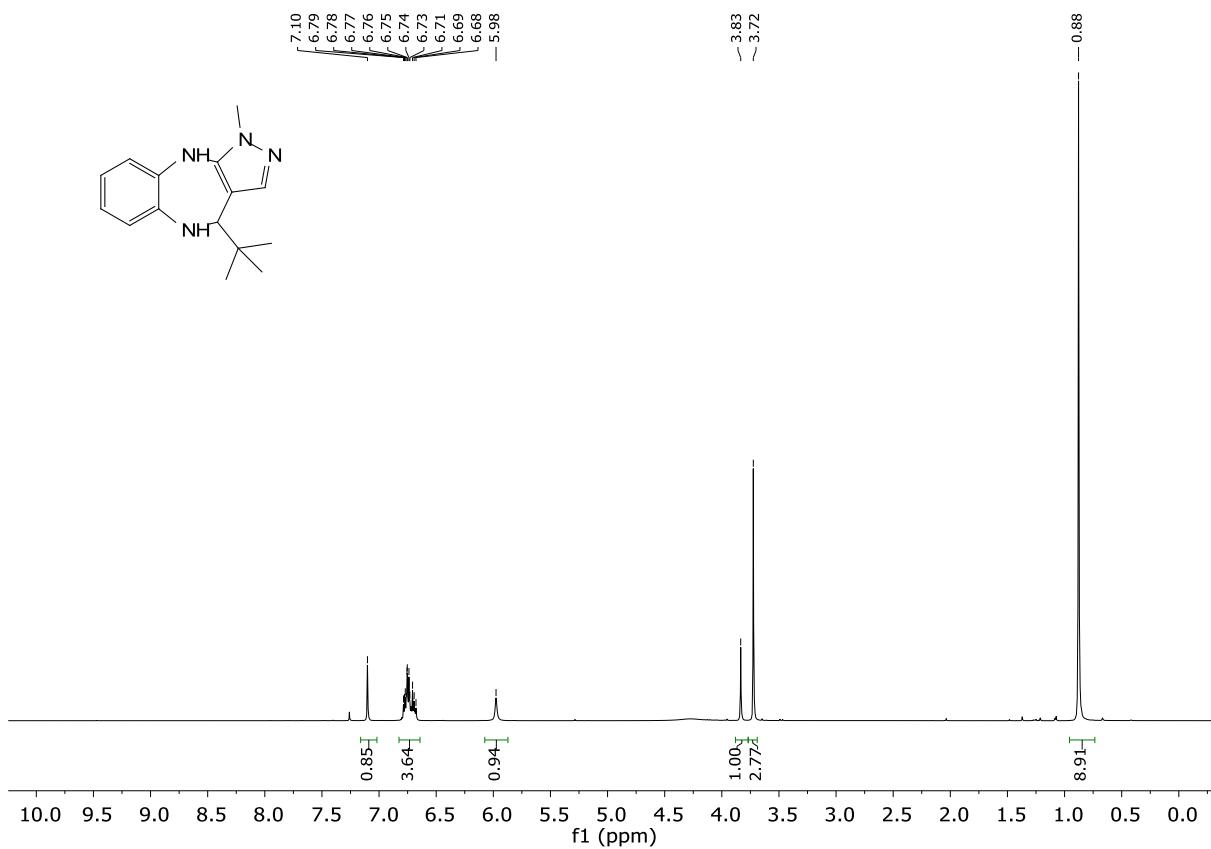


Figure S13 ^1H NMR spectrum of compound **7f** in CDCl_3 (300MHz)

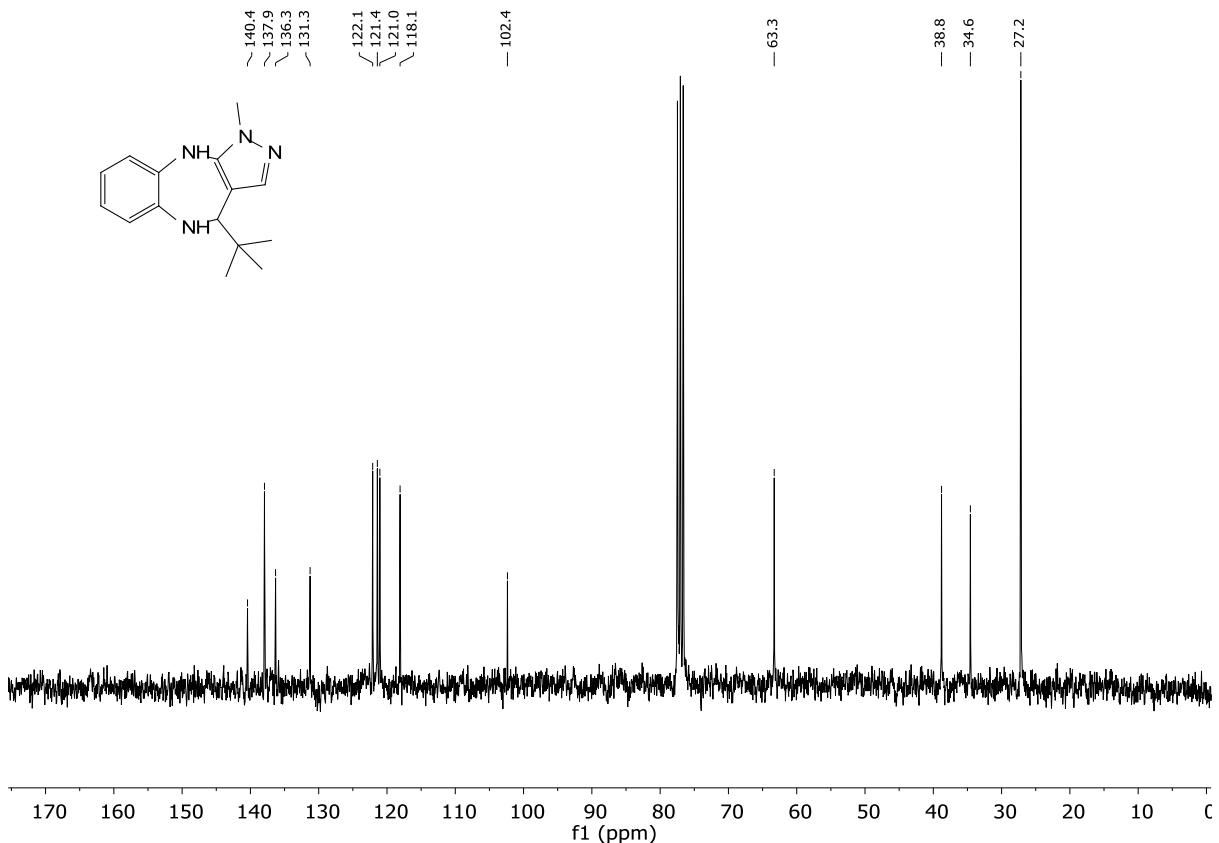


Figure S14 ^{13}C NMR spectrum of compound **7f** in CDCl_3 (75 MHz)

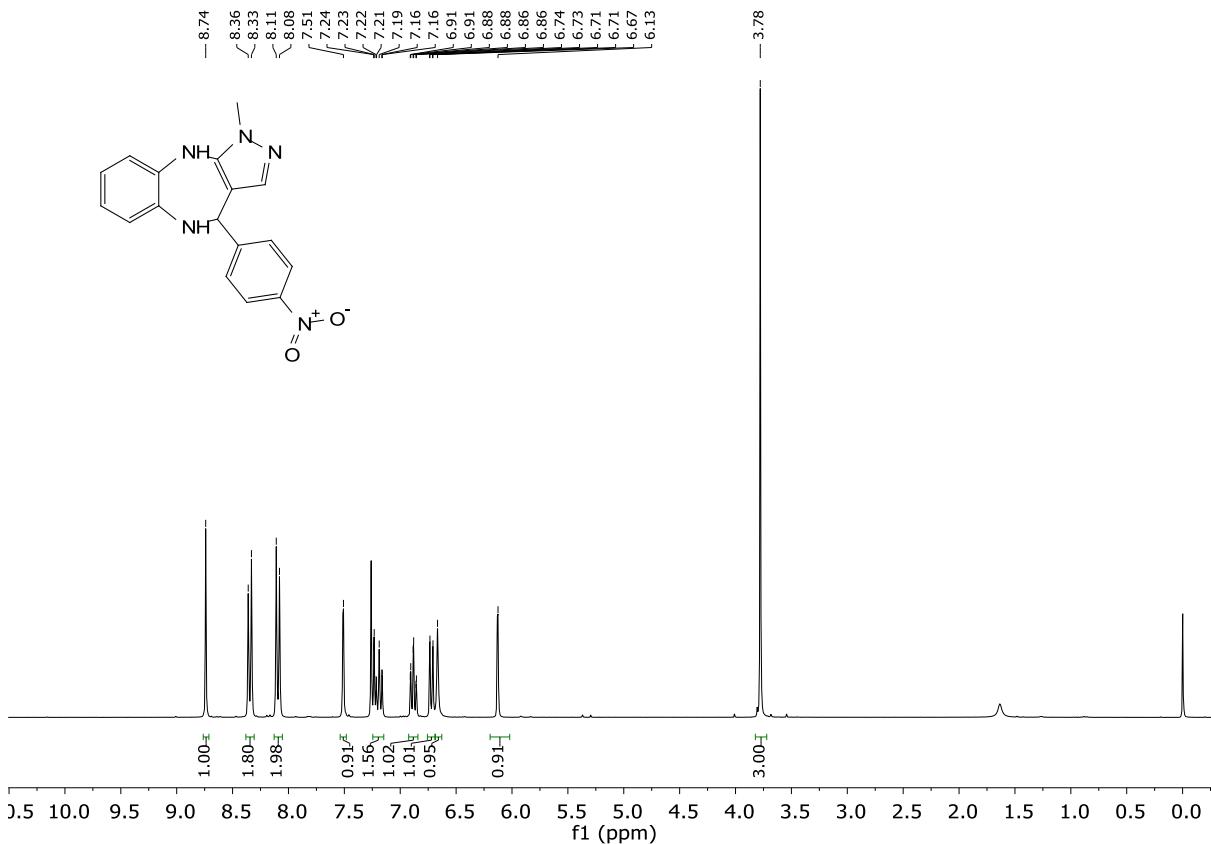


Figure S15 ^1H NMR spectrum of compound **7g** in CDCl_3 (300 MHz)

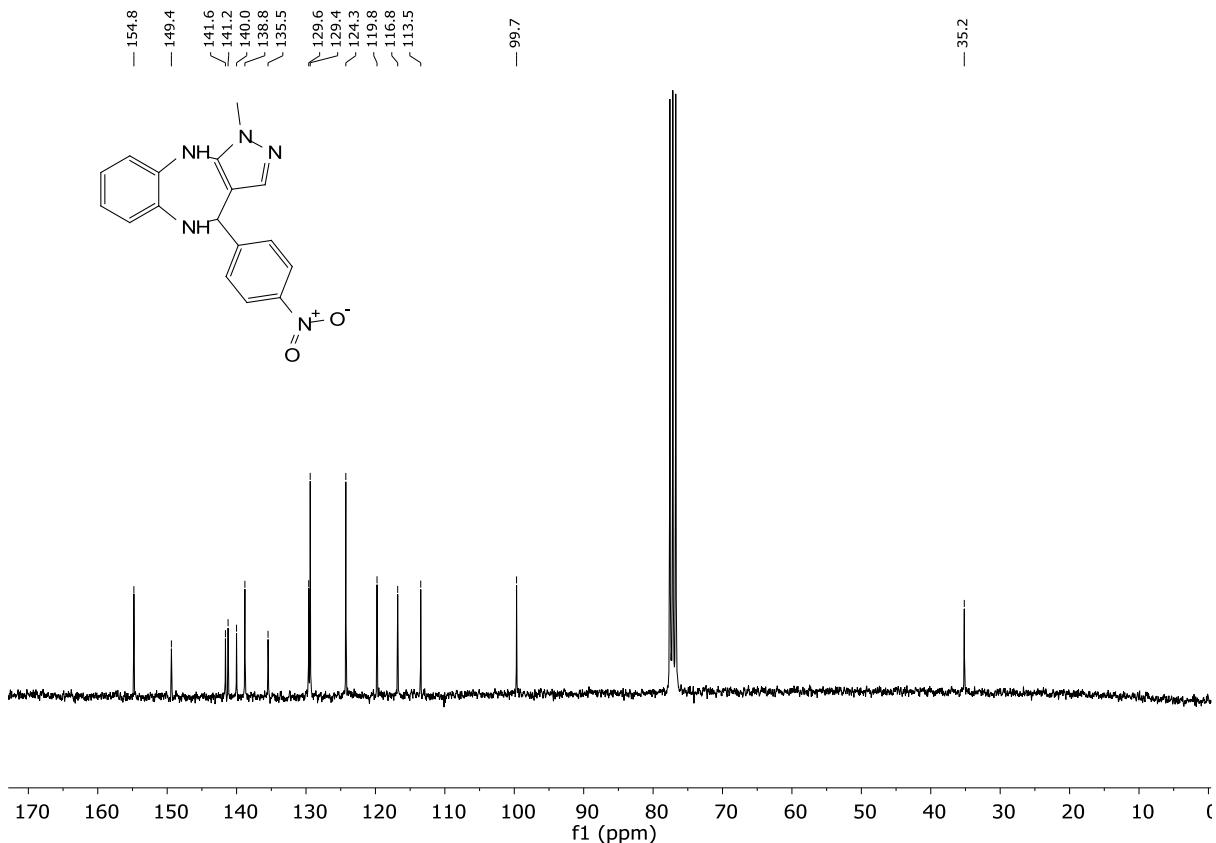


Figure S16 ^{13}C NMR spectrum of compound **7g** in CDCl_3 (75 MHz)

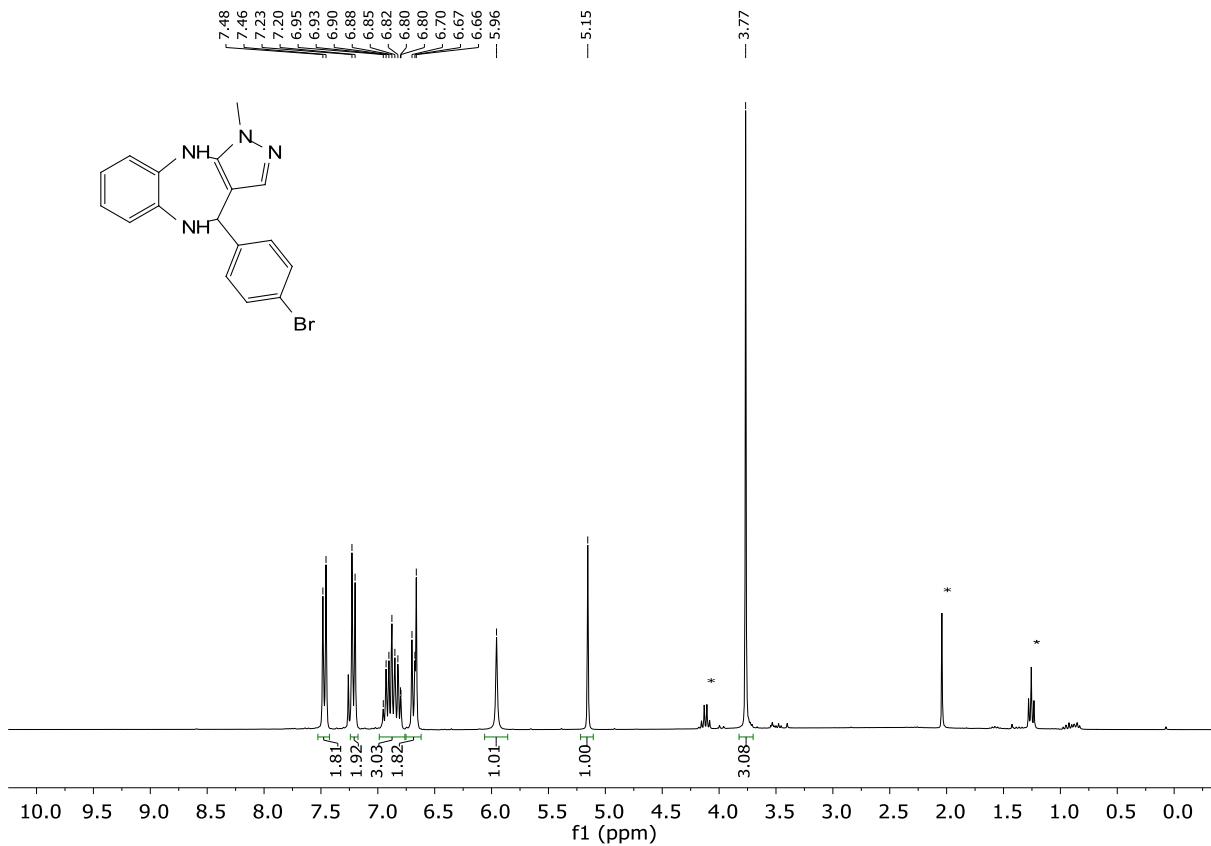


Figure S17 ^1H NMR spectrum of compound **7h** in CDCl_3 (300 MHz)

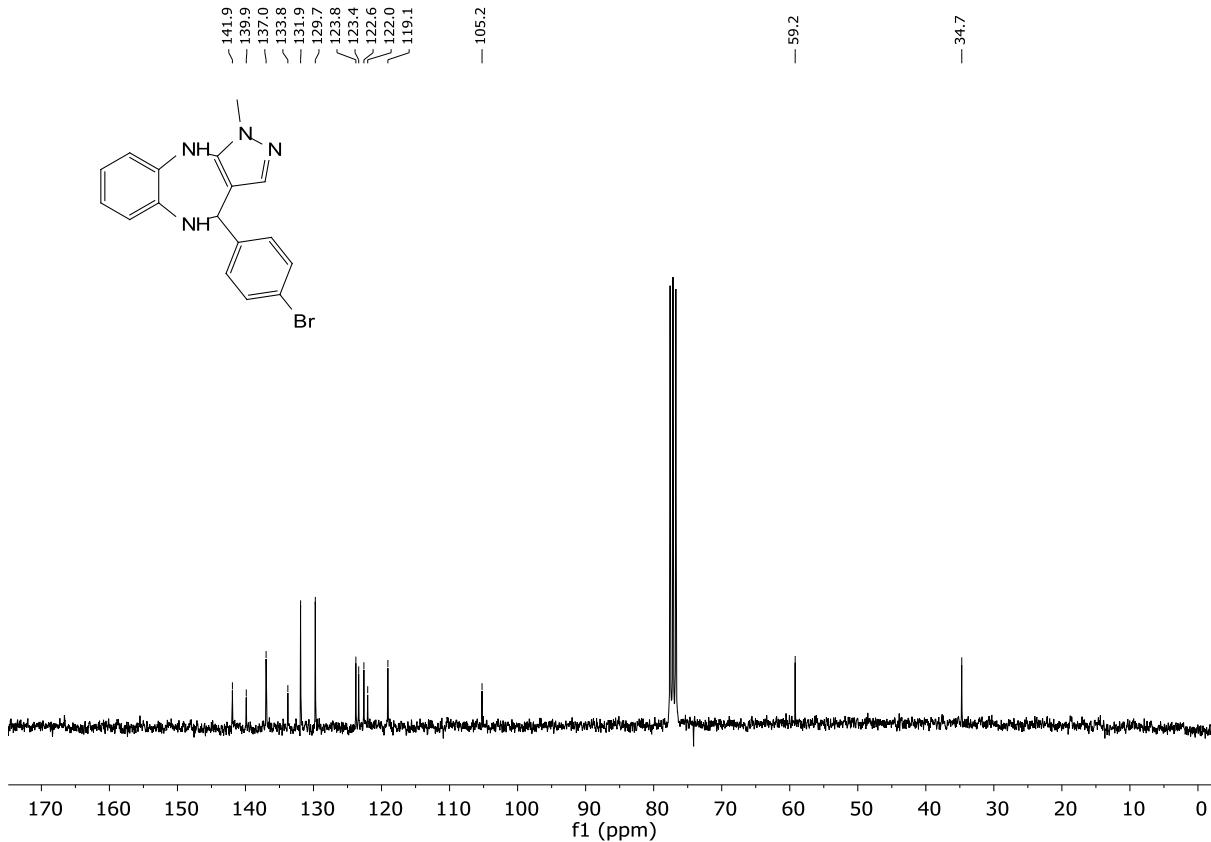


Figure S18 ^{13}C NMR spectrum of compound **7h** in CDCl_3 (75 MHz)

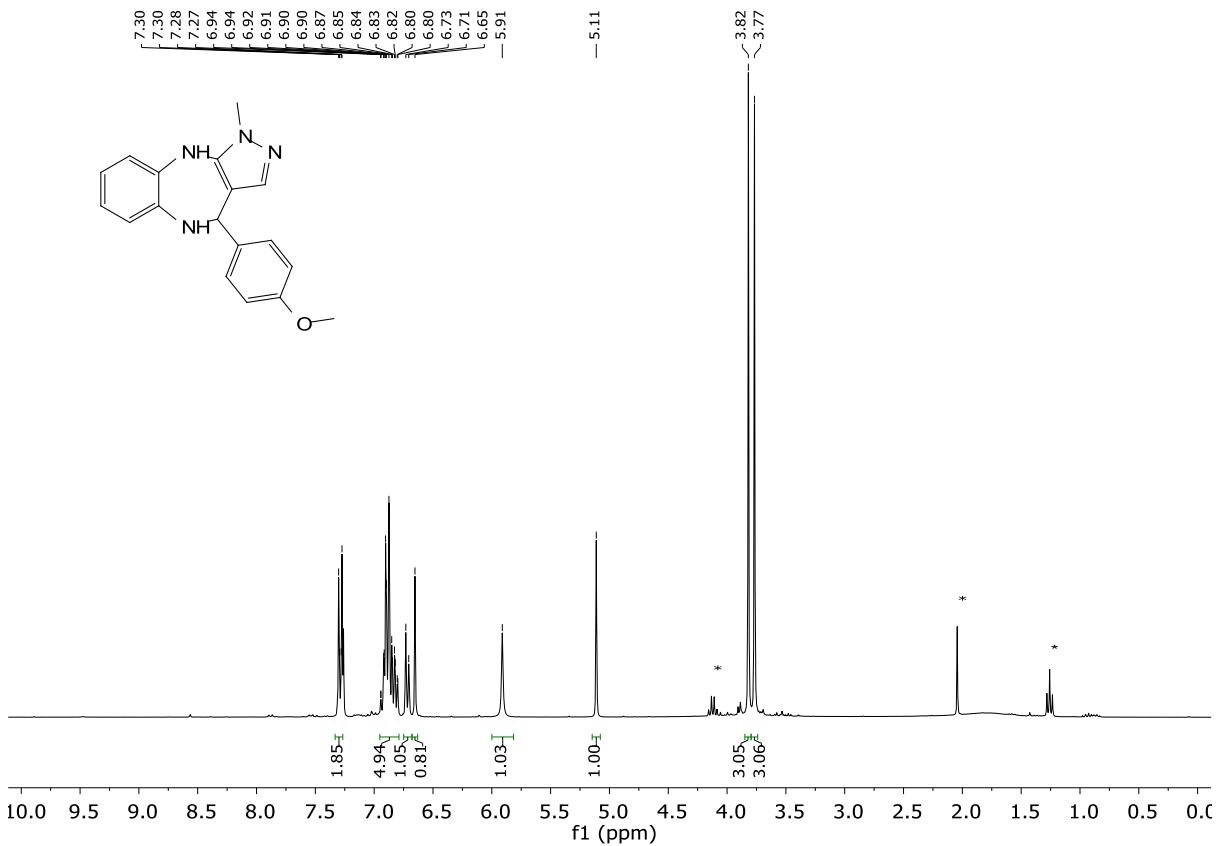


Figure S19 ^1H NMR spectrum of compound **7i** in CDCl_3 (300 MHz)

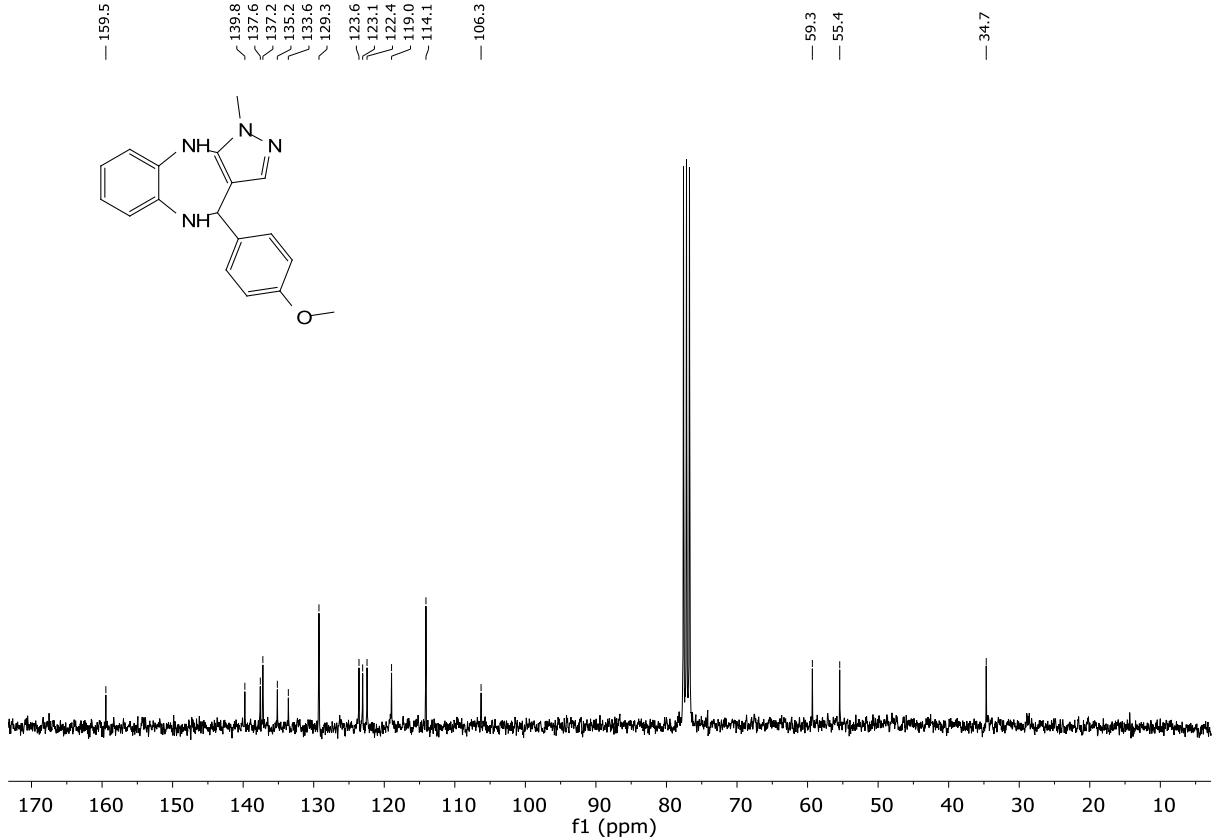


Figure S20 ^{13}C NMR spectrum of compound **7i** in CDCl_3 (75 MHz)

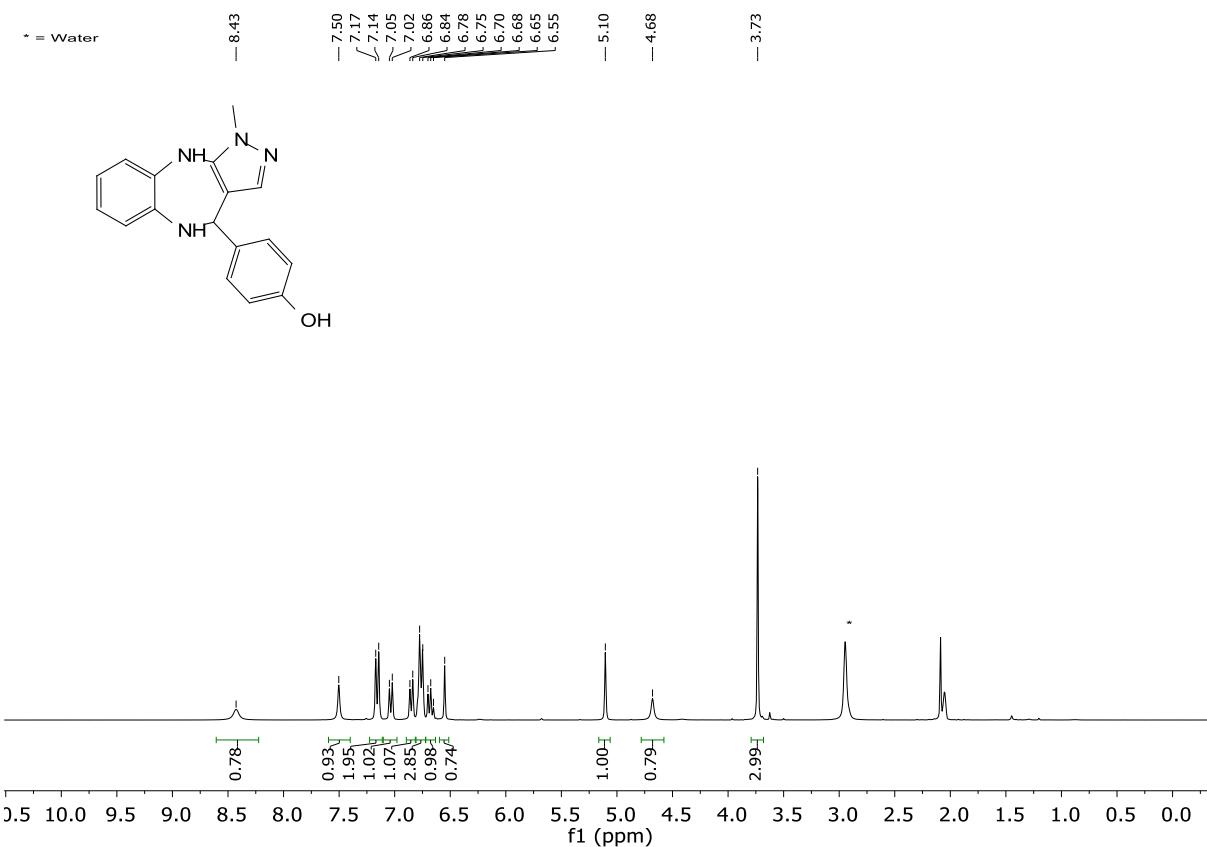


Figure S21 ^1H NMR spectrum of compound 7j in Acetone (300 MHz)

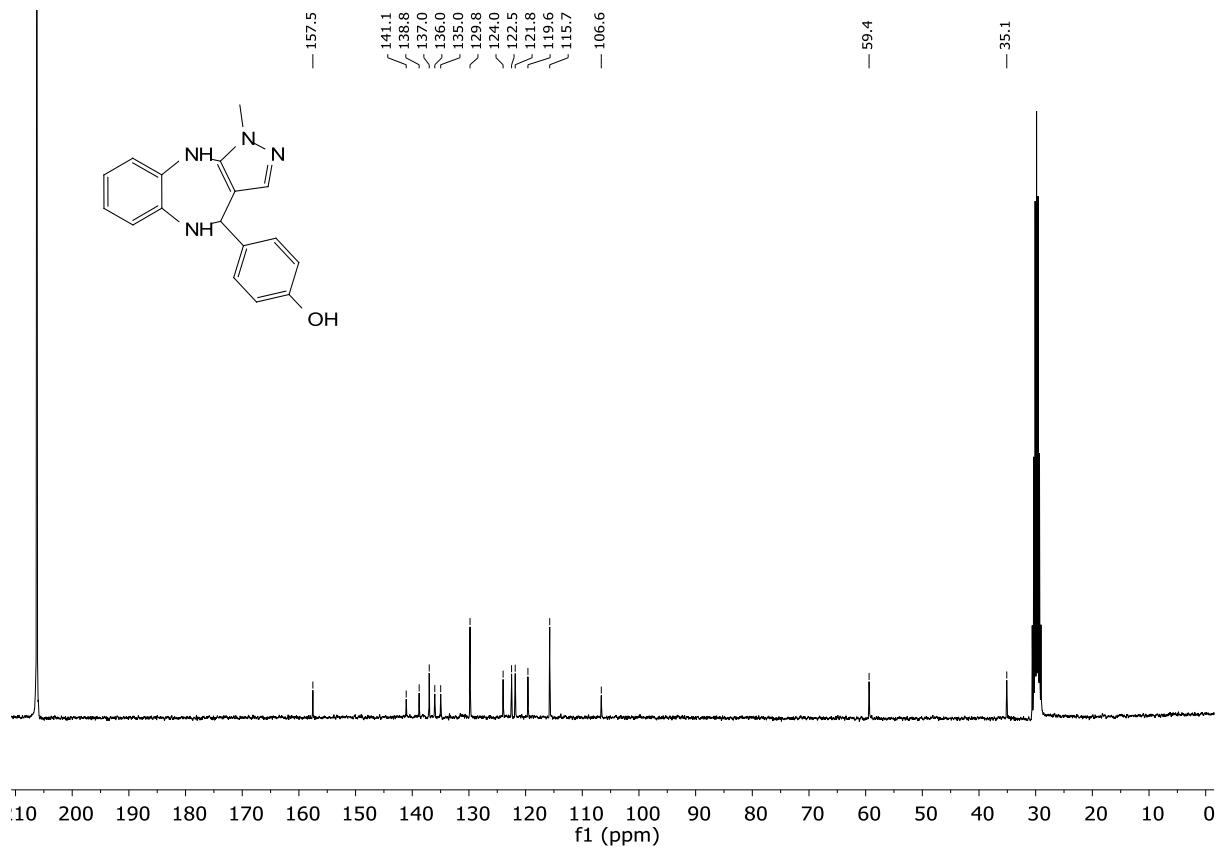


Figure S22 ^{13}C NMR spectrum of compound 7j in Acetone (75 MHz)

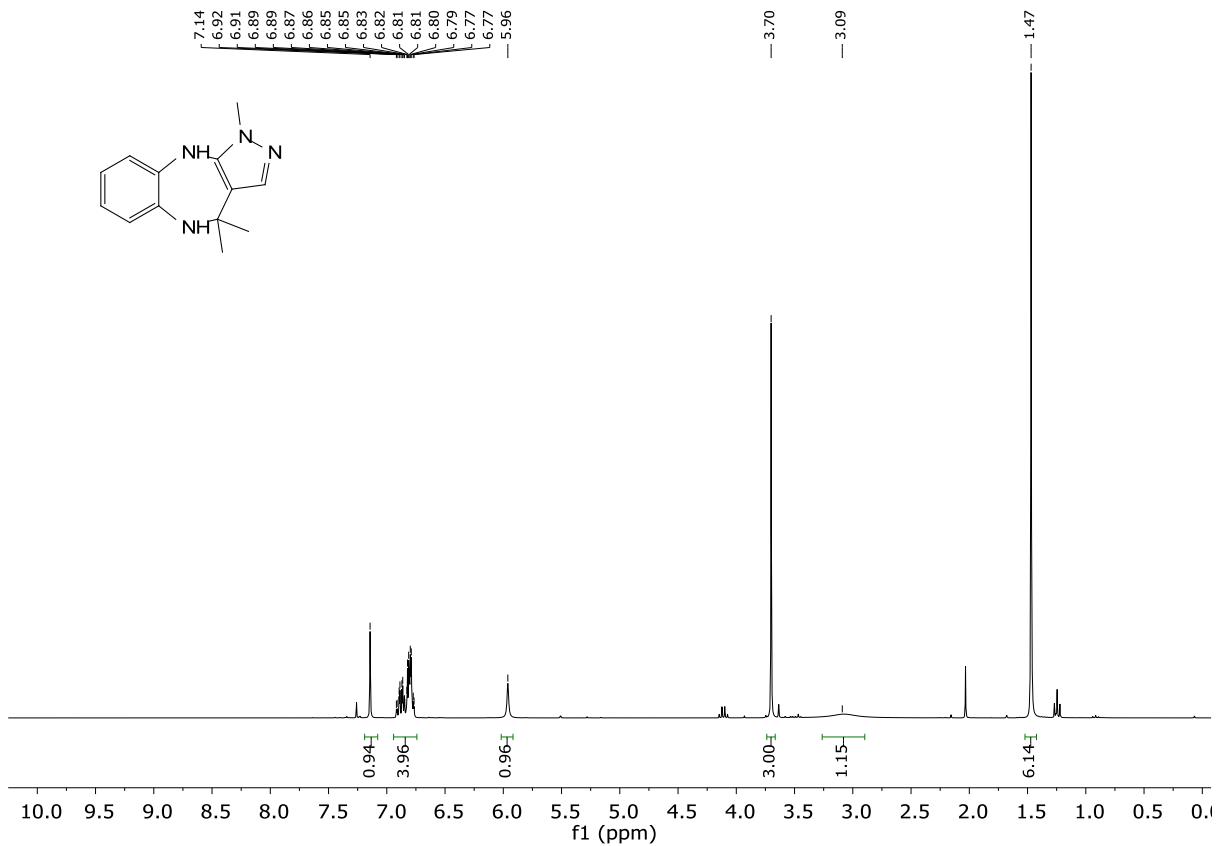


Figure S23 ^1H NMR spectrum of compound **8a** in CDCl_3 (300 MHz)

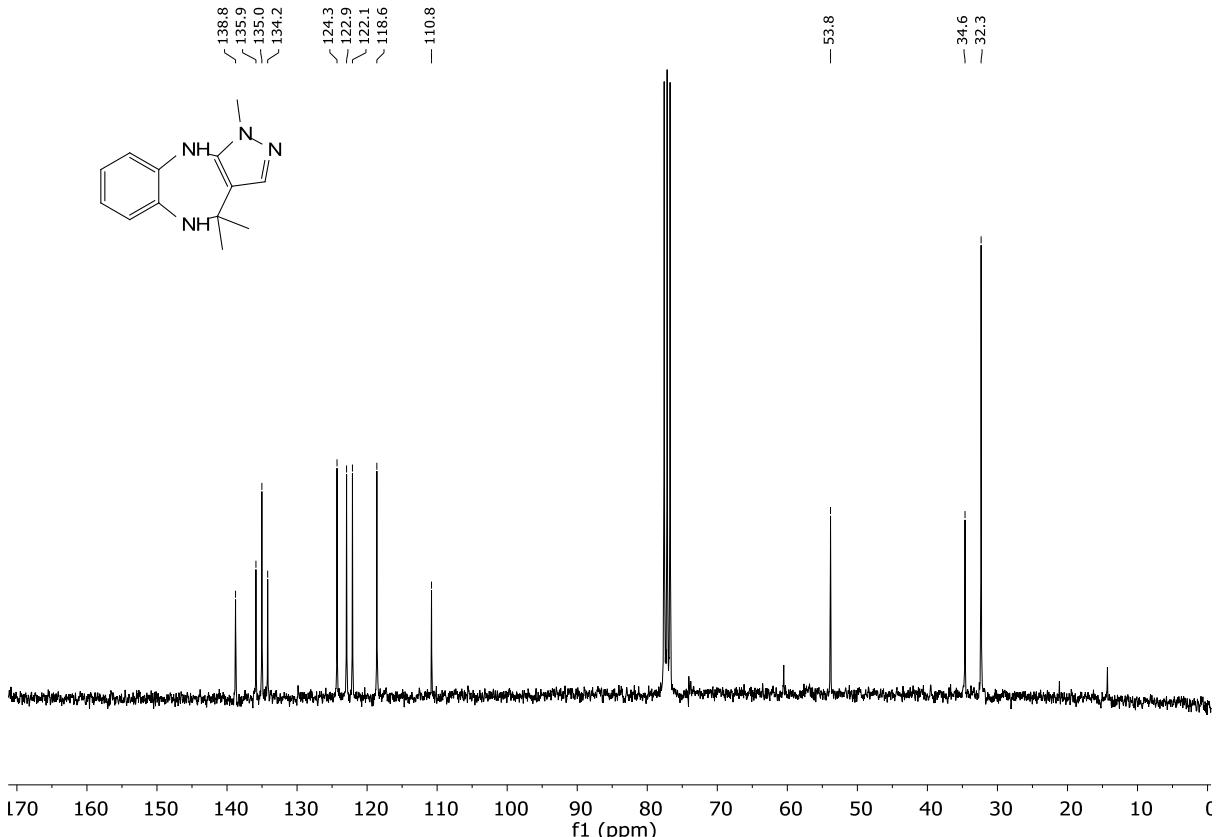


Figure S24 ^{13}C NMR spectrum of compound **8a** in CDCl_3 (75 MHz)

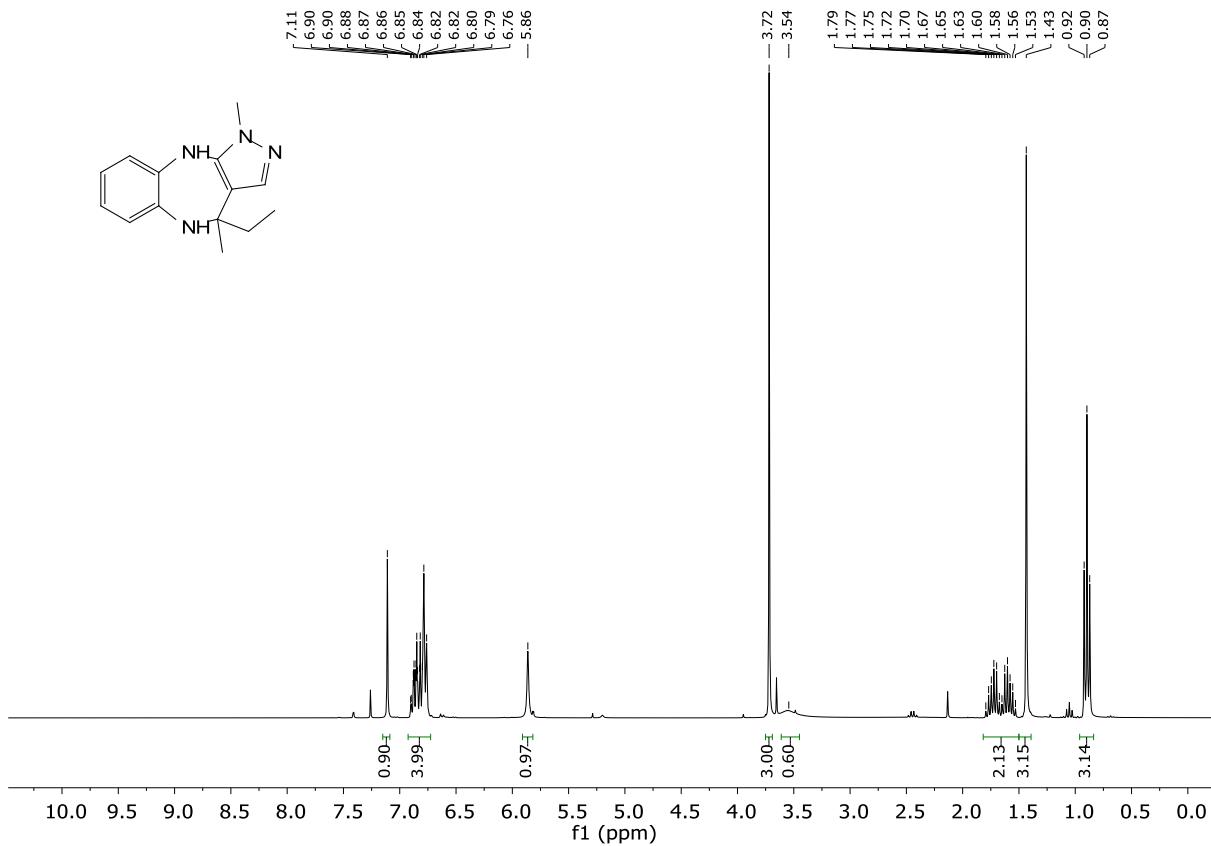


Figure S25 ¹H NMR spectrum of compound **8b** in CDCl_3 (300 MHz)

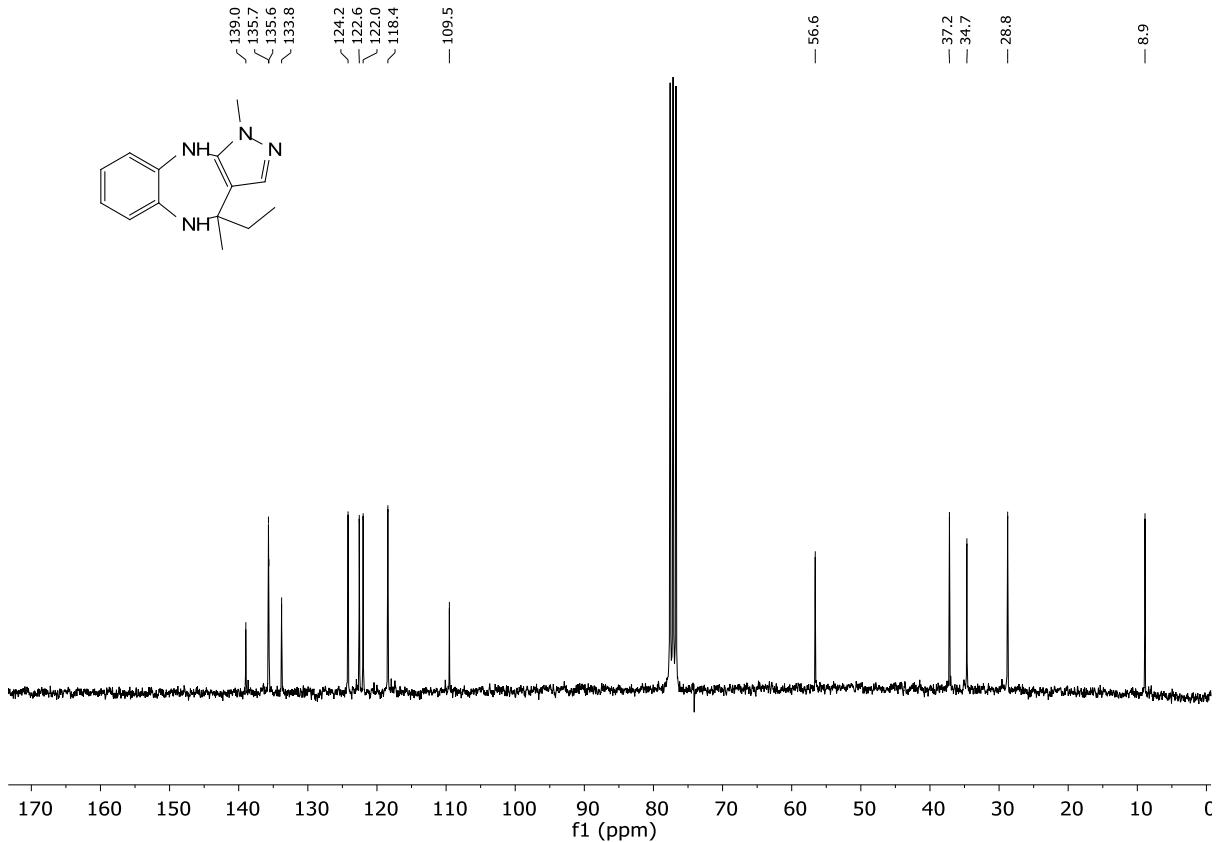


Figure S26 ¹³C NMR spectrum of compound **8b** in CDCl_3 (75 MHz)

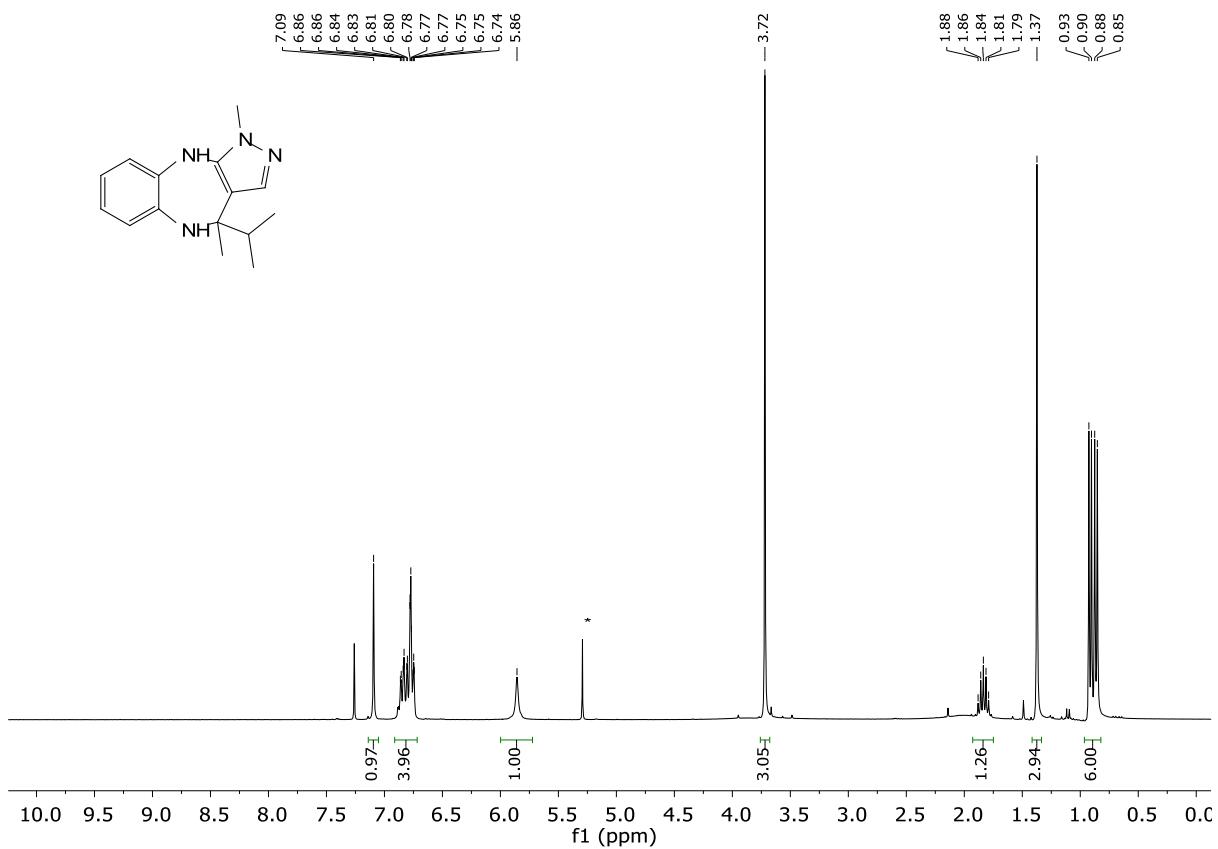


Figure S27 ¹H NMR spectrum of compound 8c in CDCl_3 (300 MHz)

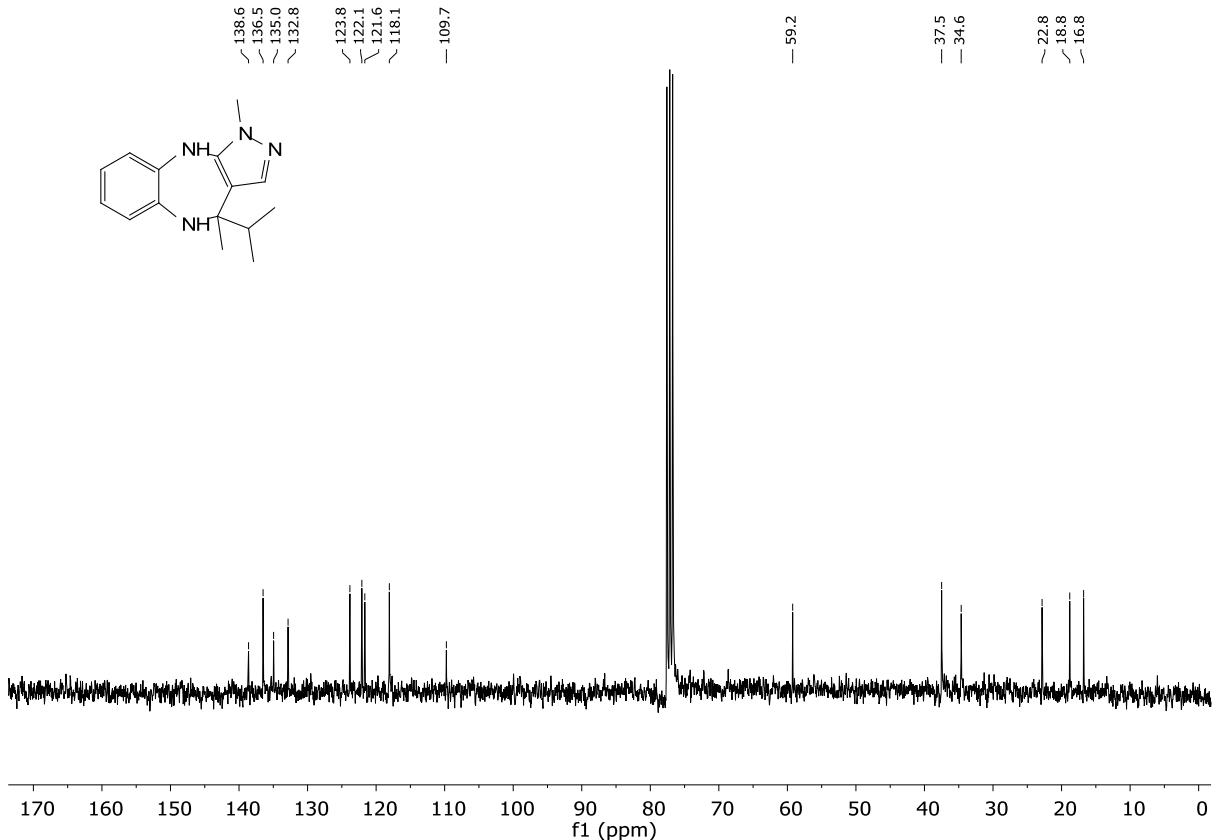


Figure S28 ¹³C NMR spectrum of compound 8c in CDCl_3 (75 MHz)

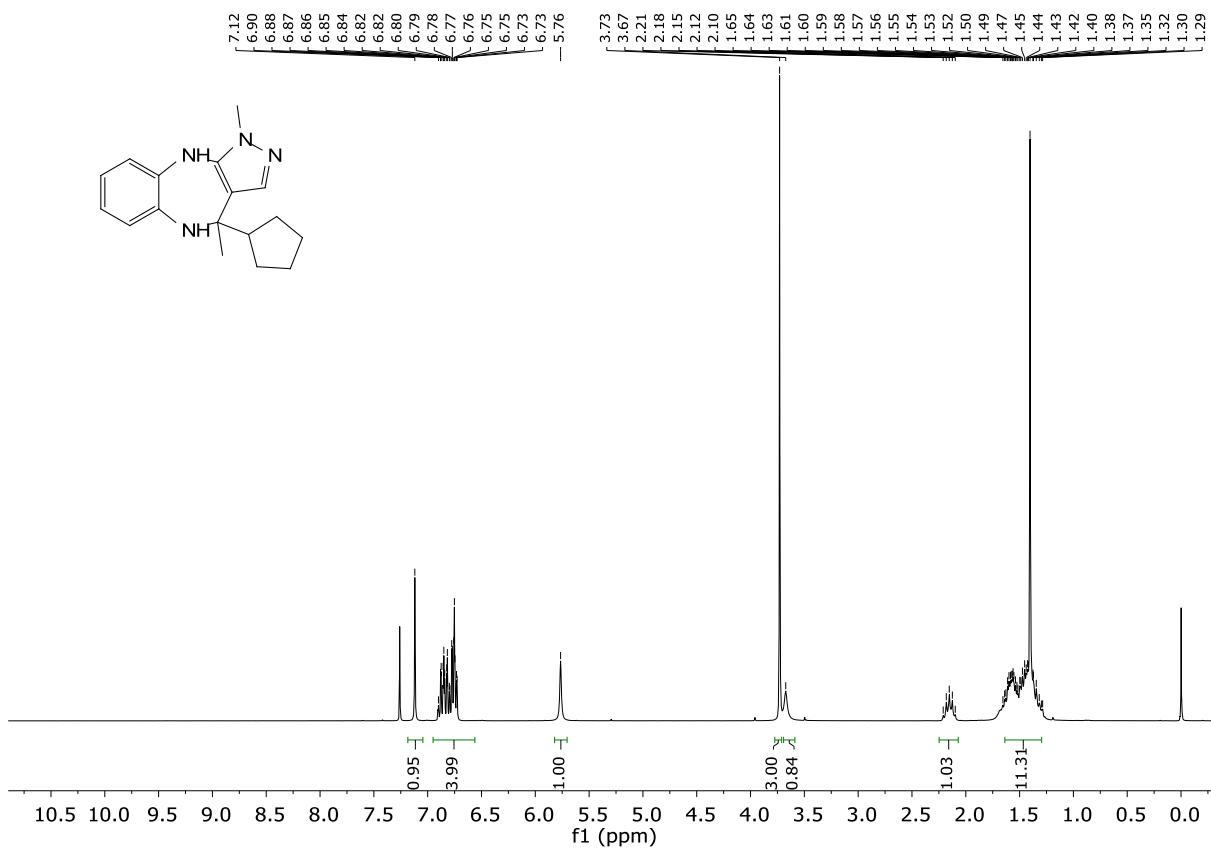


Figure S29 ¹H NMR spectrum of compound **8d** in CDCl_3 (300 MHz)

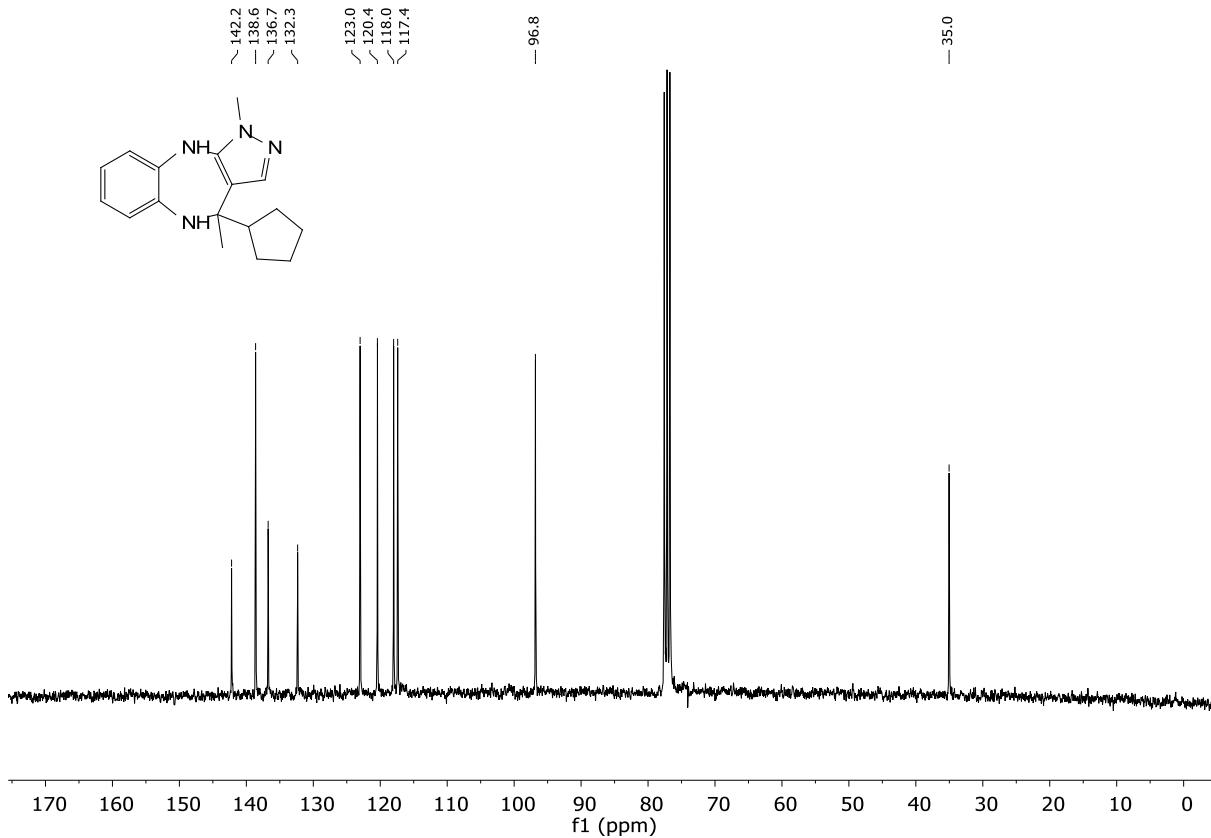


Figure S30 ¹³C NMR spectrum of compound **8d** in CDCl_3 (75 MHz)

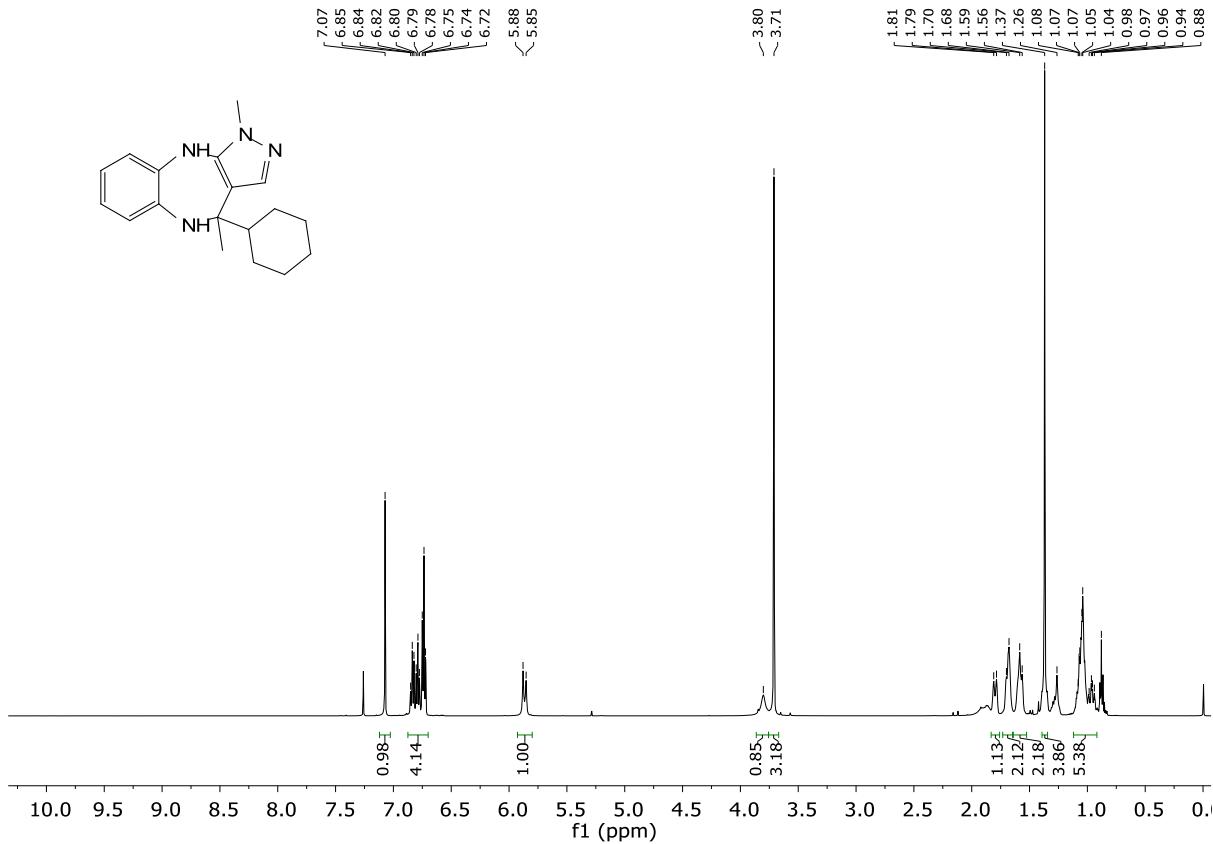


Figure S31 ^1H NMR spectrum of compound **8e** in CDCl_3 (500 MHz)

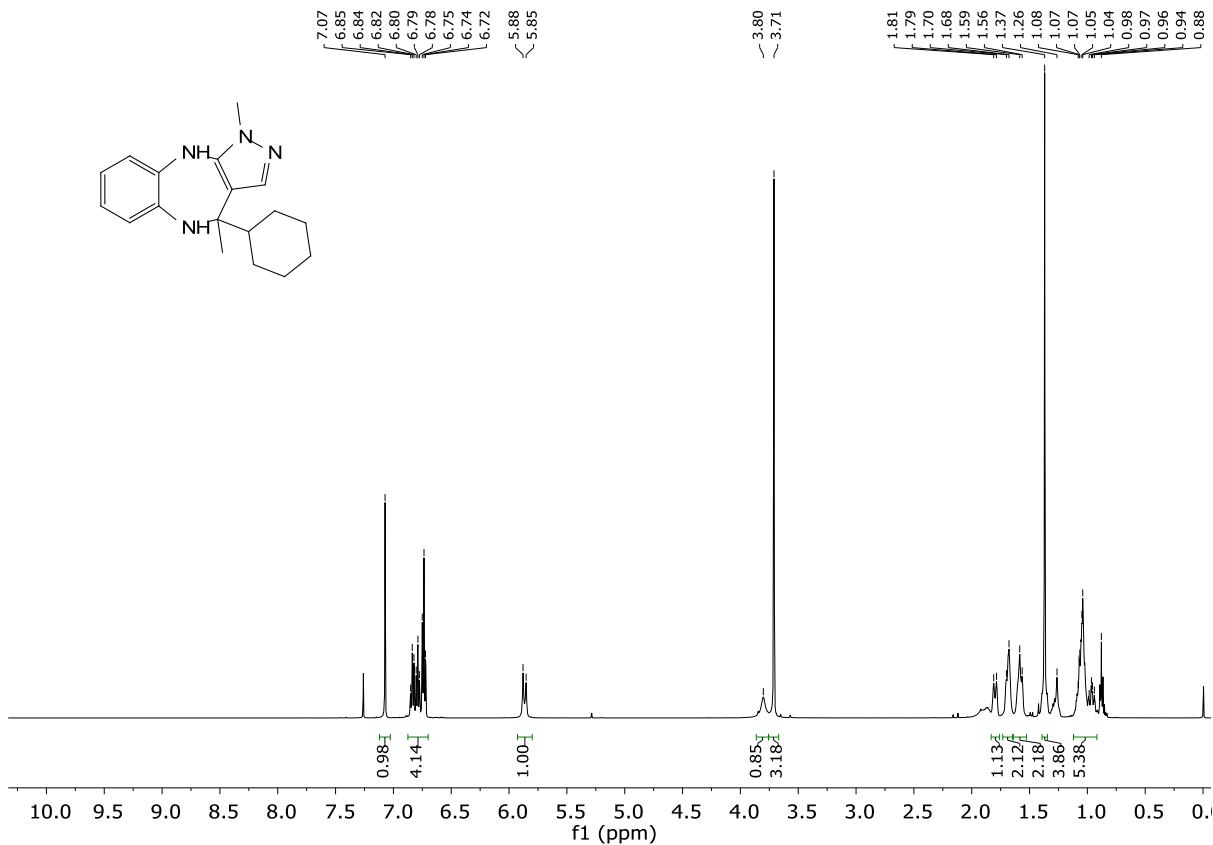


Figure S32 ^{13}C NMR spectrum of compound **8e** in CDCl_3 (125 MHz)

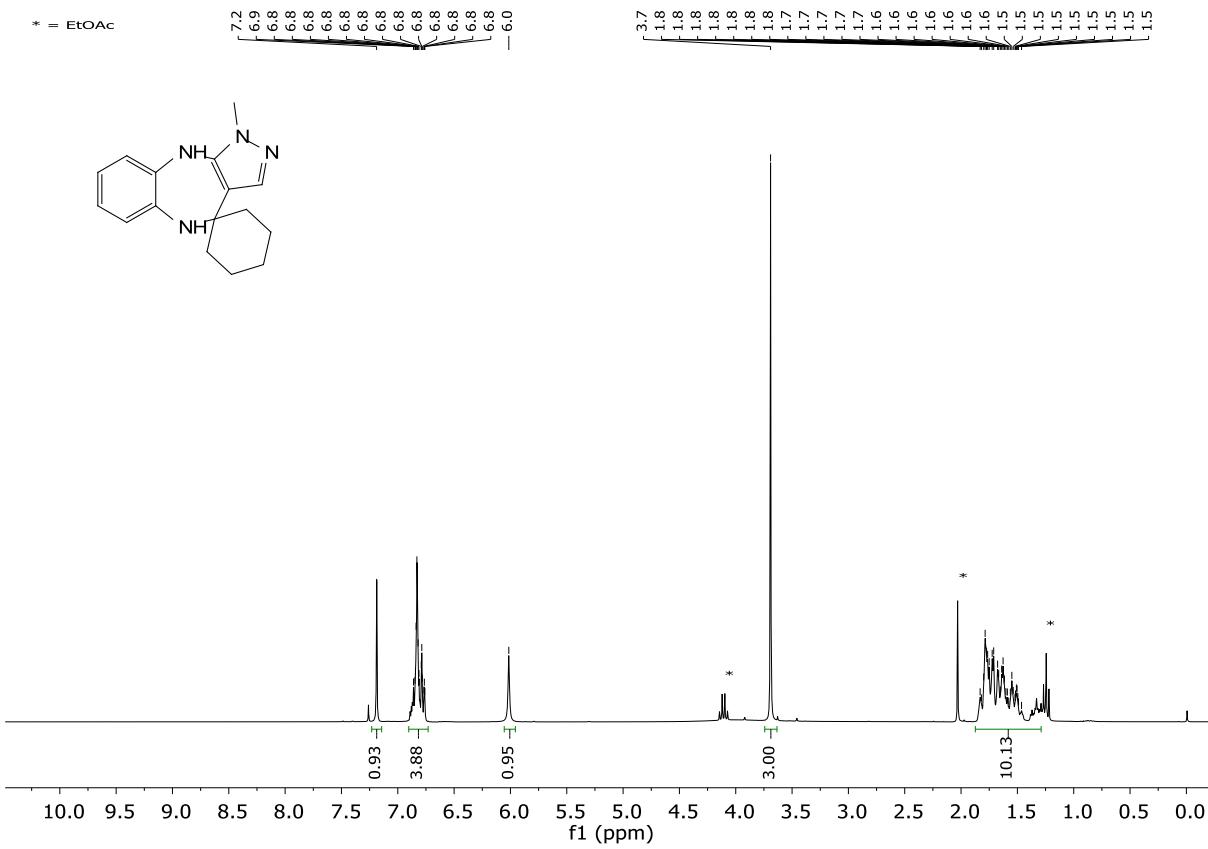


Figure S33 ¹H NMR spectrum of compound **8f** in CDCl_3 (300 MHz)

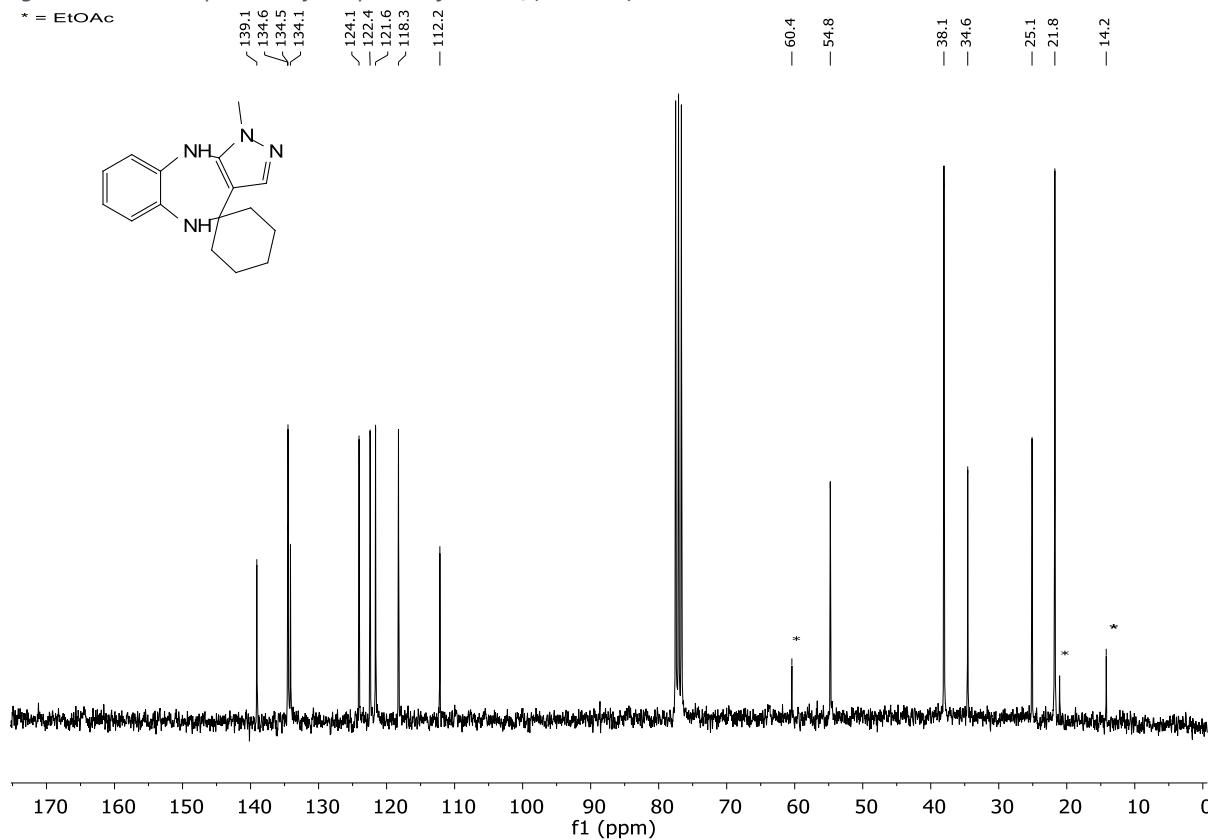


Figure S34 ¹³C NMR spectrum of compound **8f** in CDCl_3 (75 MHz)

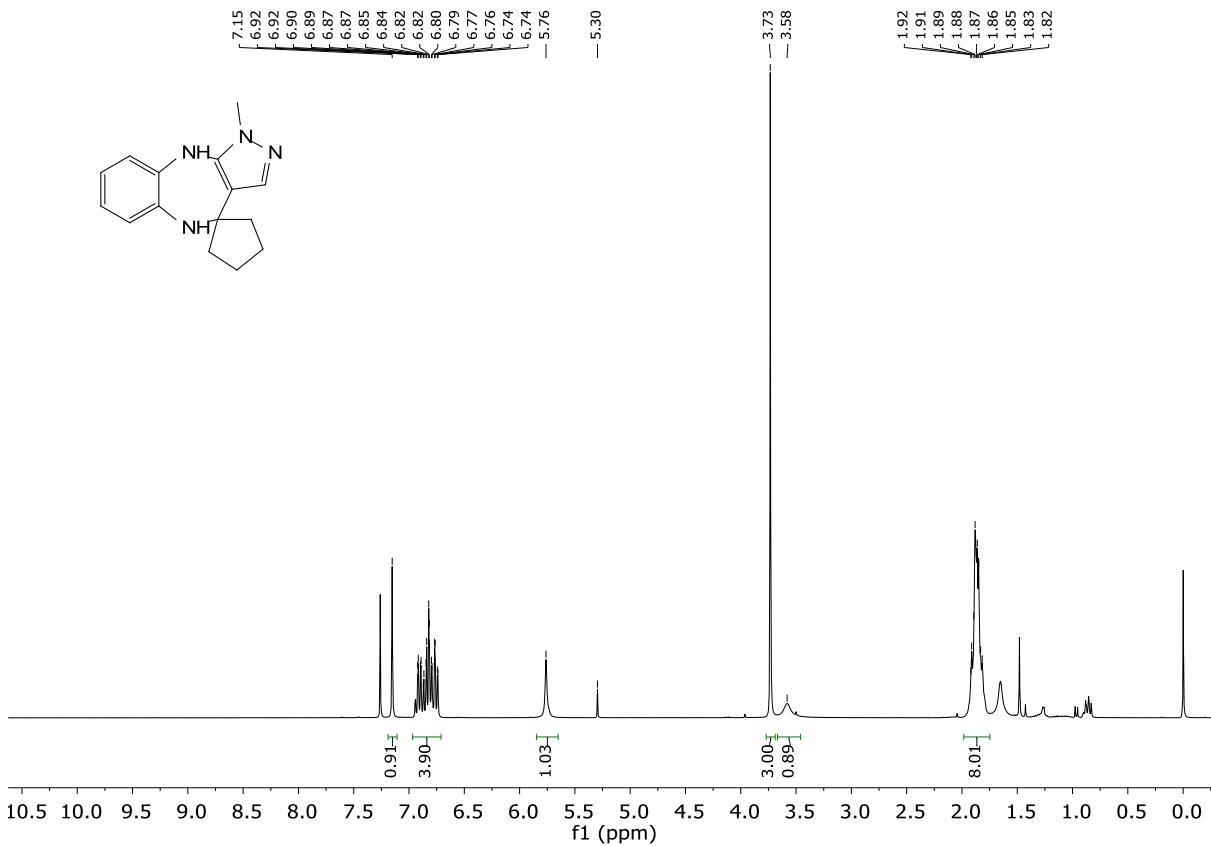


Figure S35 ¹H NMR spectrum of compound 8g in CDCl_3 (300 MHz)

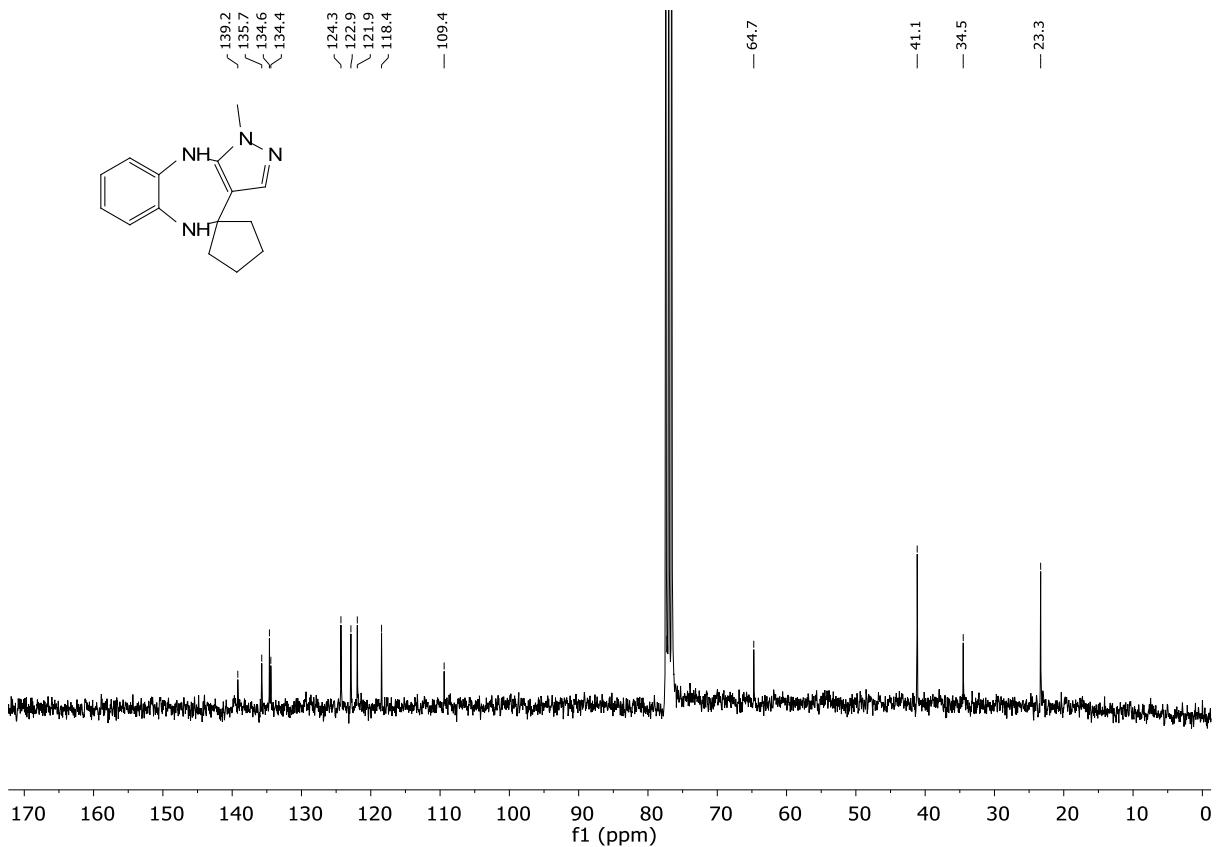


Figure S36 ¹³C NMR spectrum of compound 8g in CDCl_3 (75 MHz)

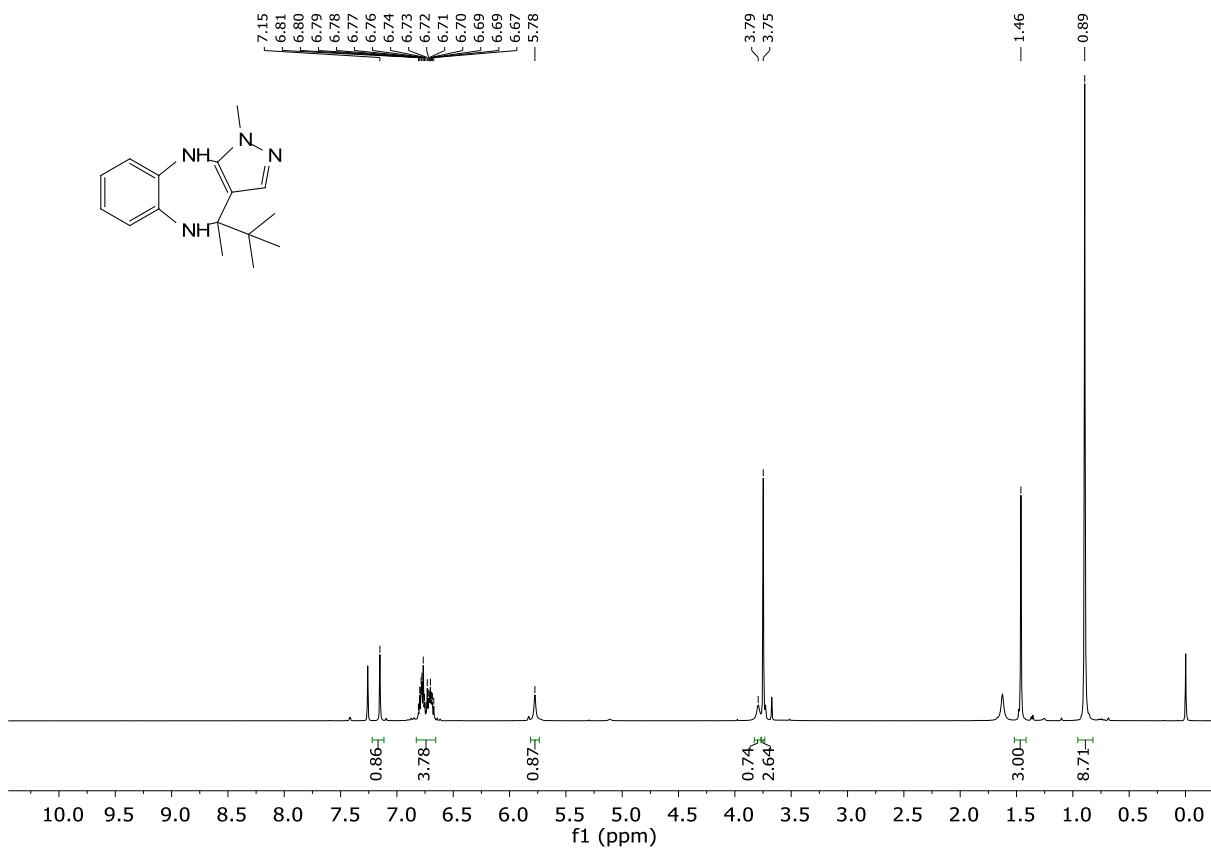


Figure S37 ^1H NMR spectrum of compound **8h** in CDCl_3 (300 MHz)

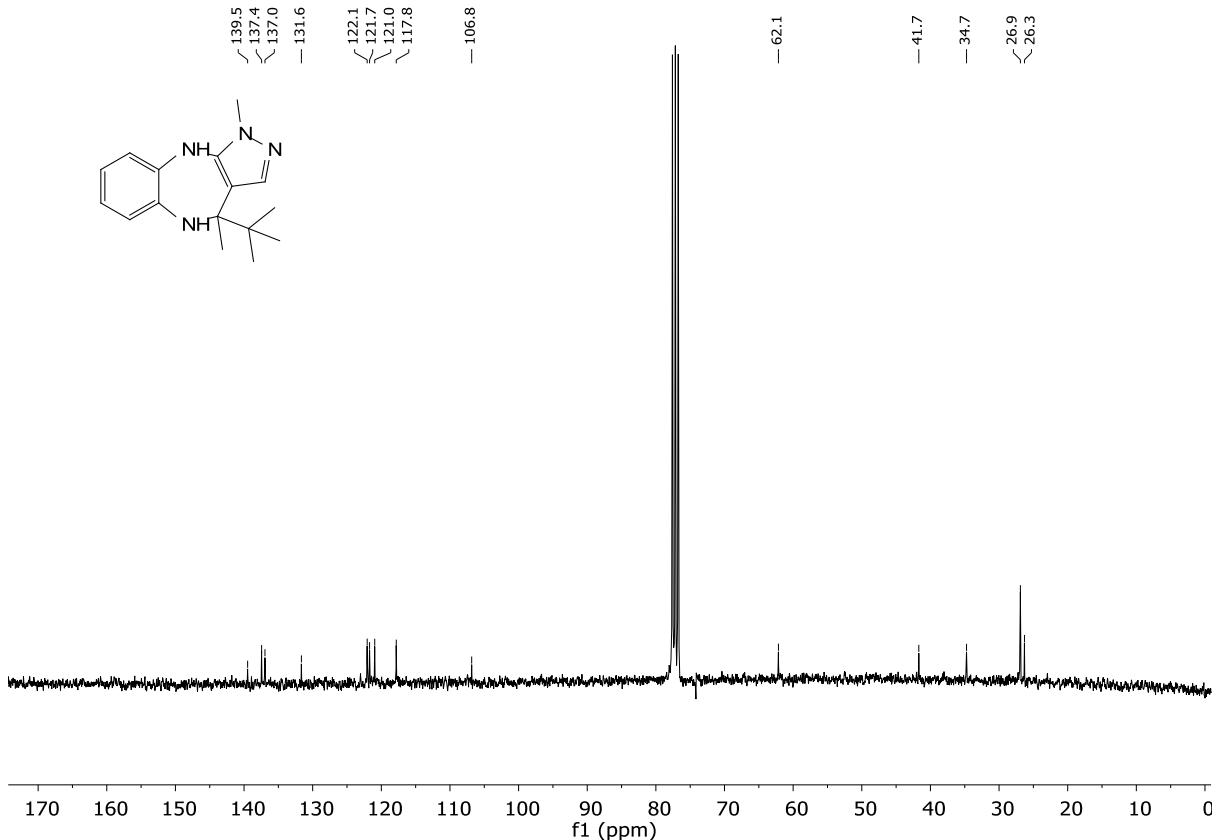


Figure S38 ^{13}C NMR spectrum of compound **8h** in CDCl_3 (75 MHz)

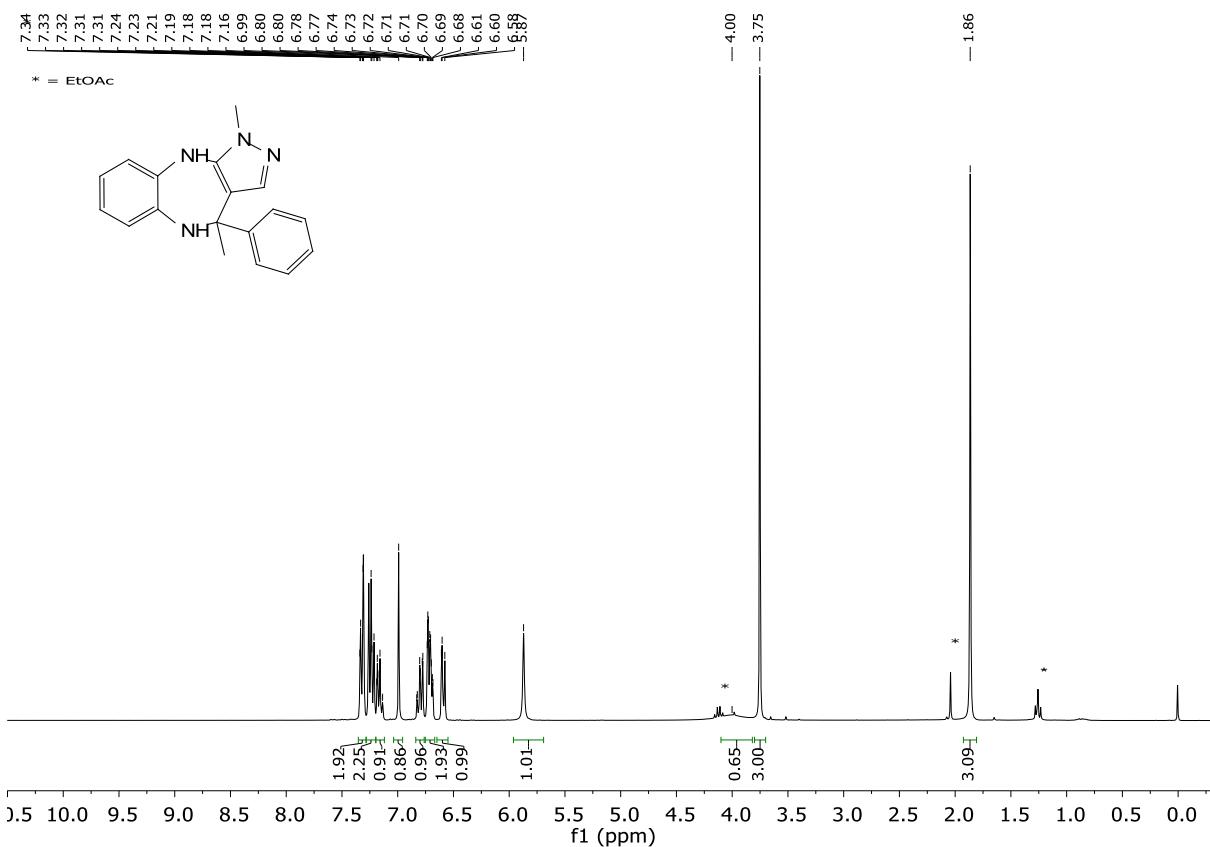


Figure S39 ^1H NMR spectrum of compound **8j** in CDCl_3 (300 MHz)

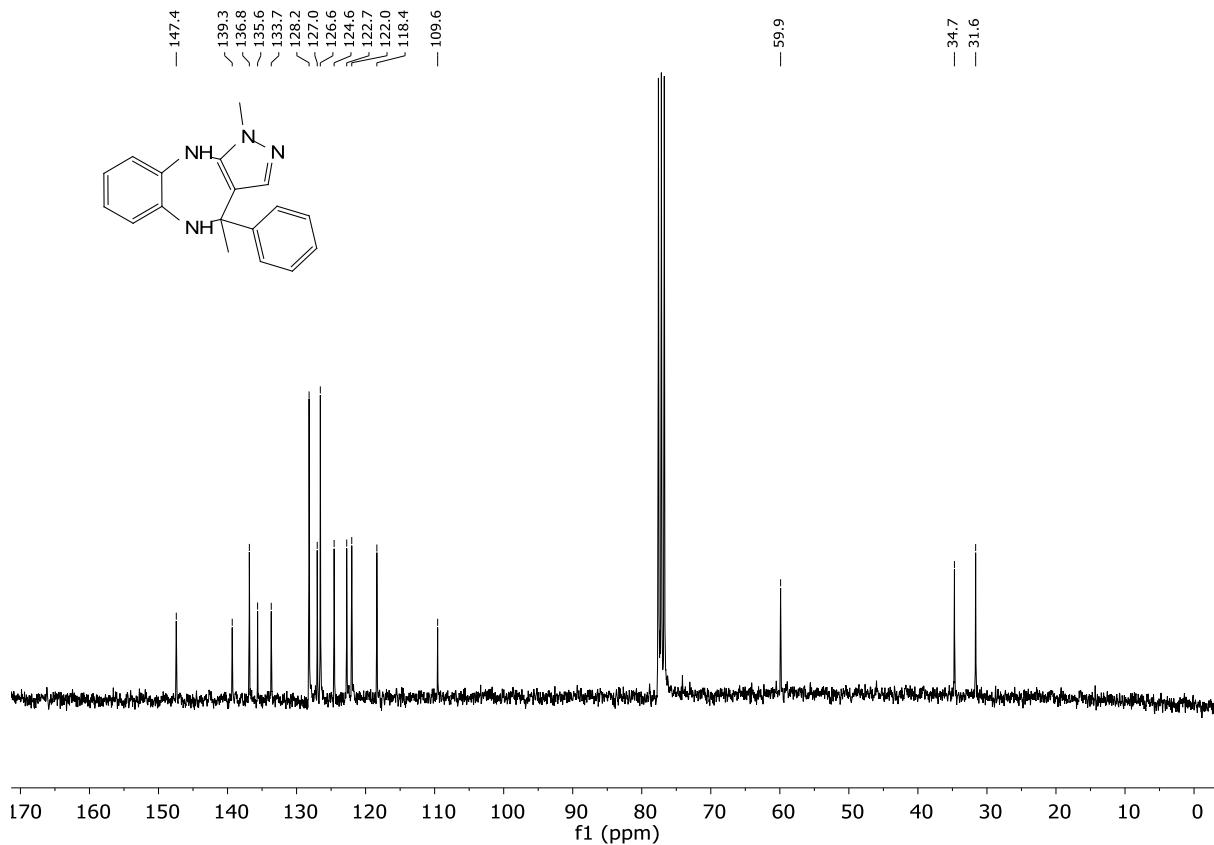


Figure S40 ^{13}C NMR spectrum of compound **8j** in CDCl_3 (75 MHz)

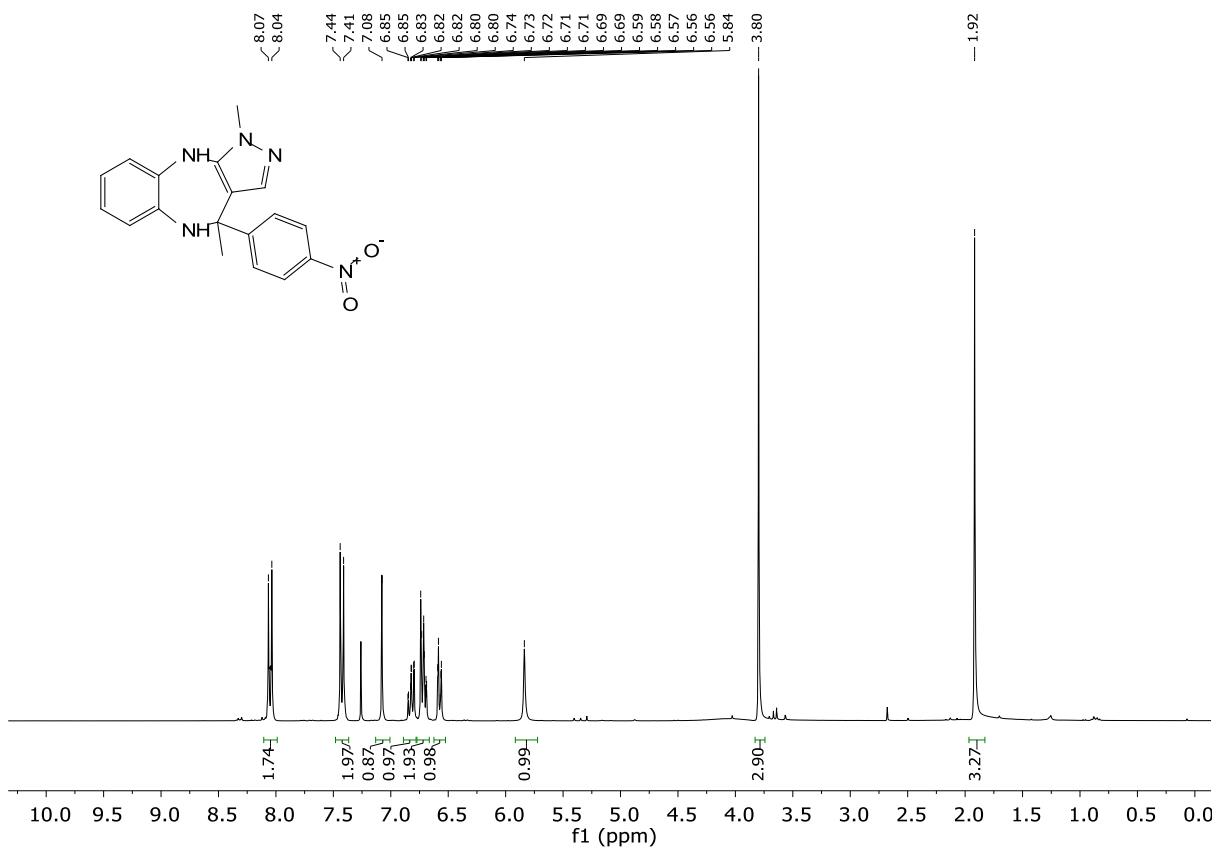


Figure S41 ^1H NMR spectrum of compound **8k** in CDCl_3 (300 MHz)

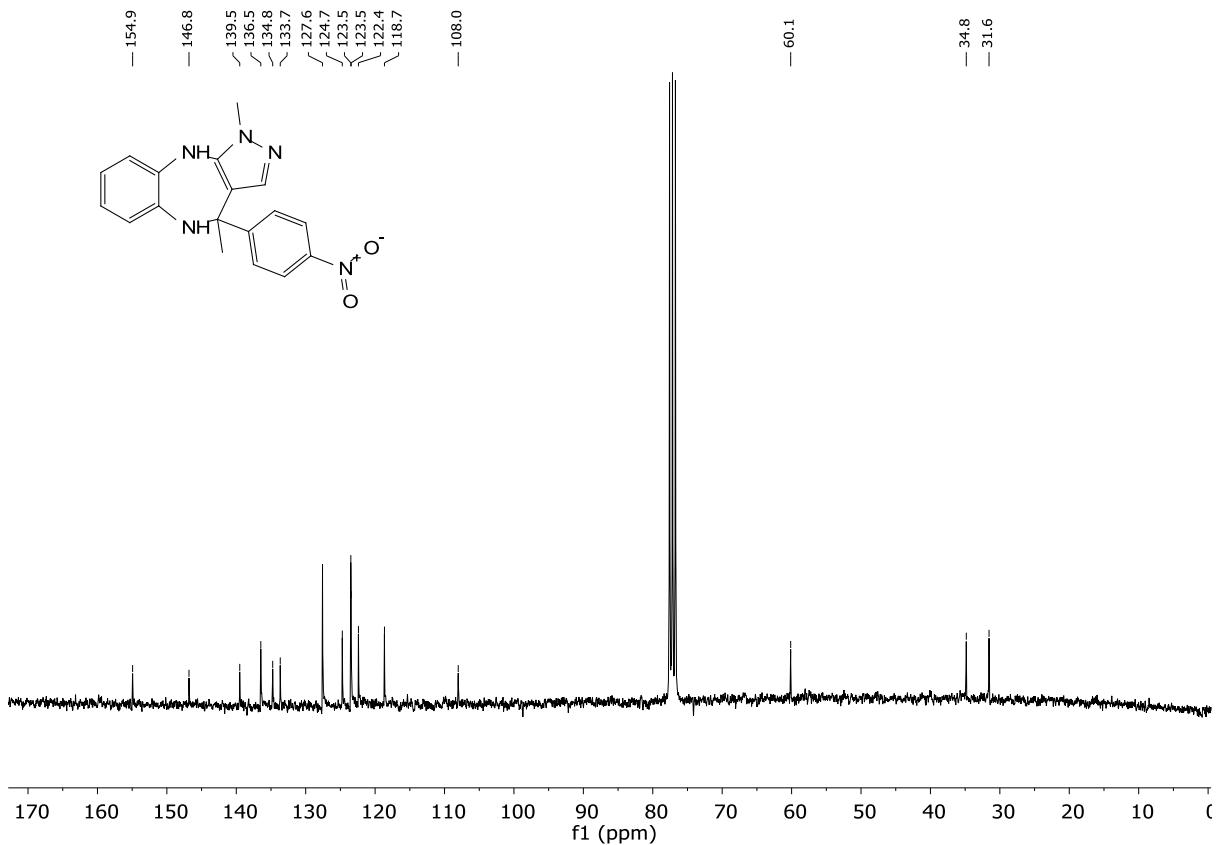


Figure S42 ^{13}C NMR spectrum of compound **8k** in CDCl_3 (75 MHz)

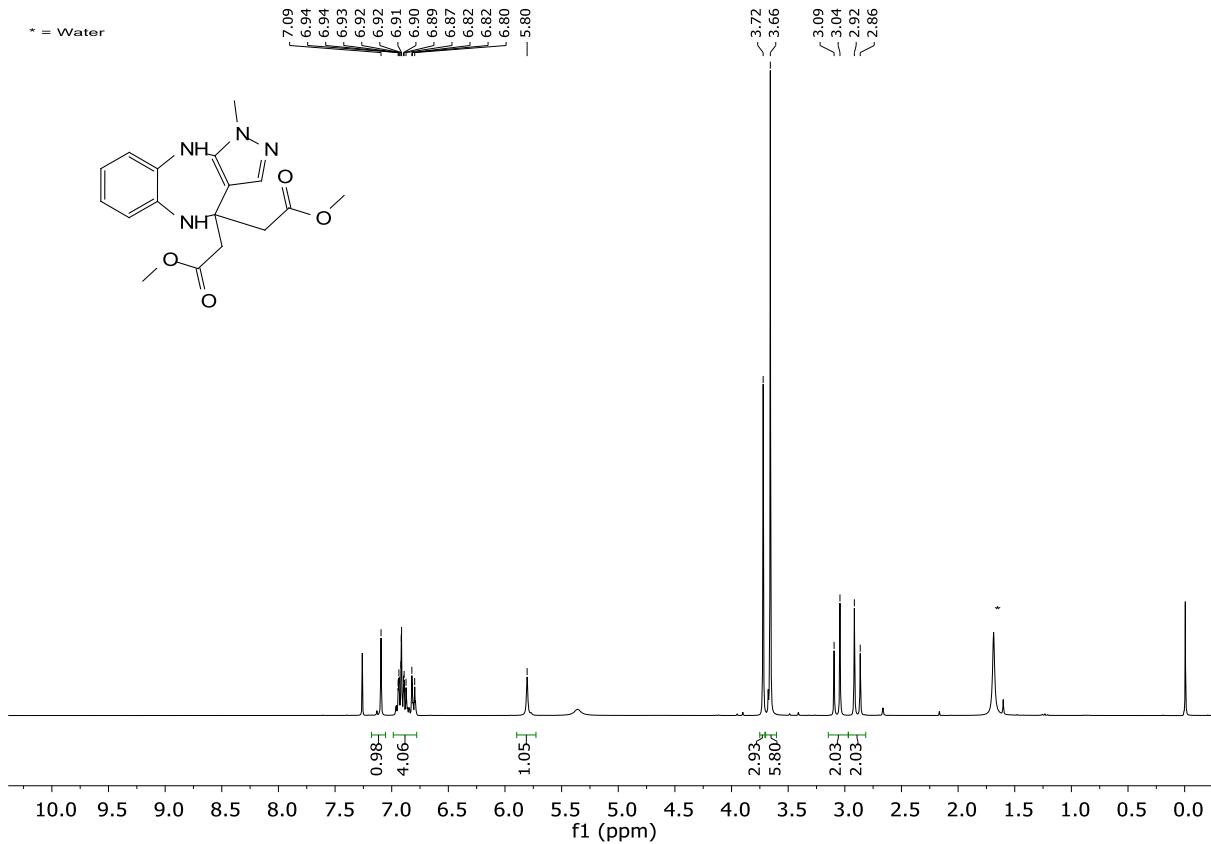


Figure S43 ^1H NMR spectrum of compound **8m** in CDCl_3 (300 MHz)

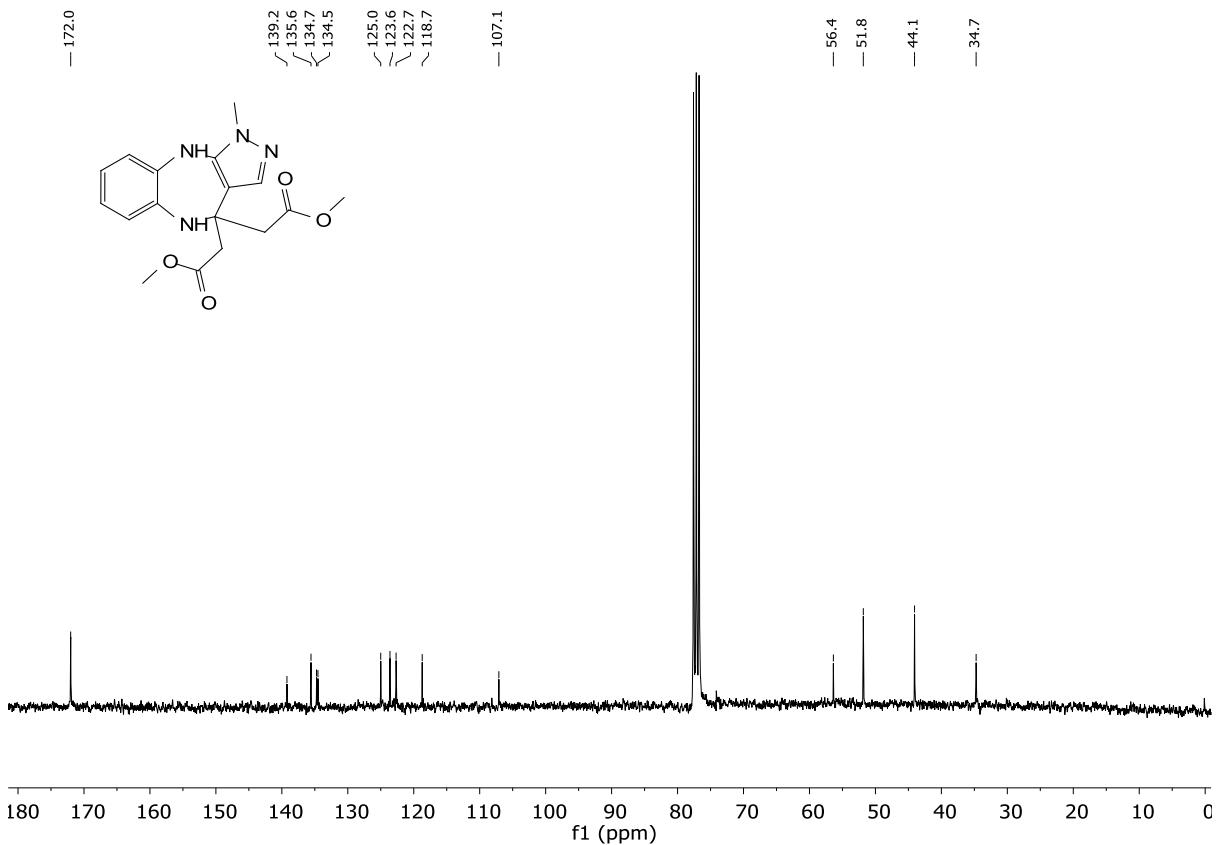


Figure S44 ^{13}C NMR spectrum of compound **8m** in CDCl_3 (75 MHz)

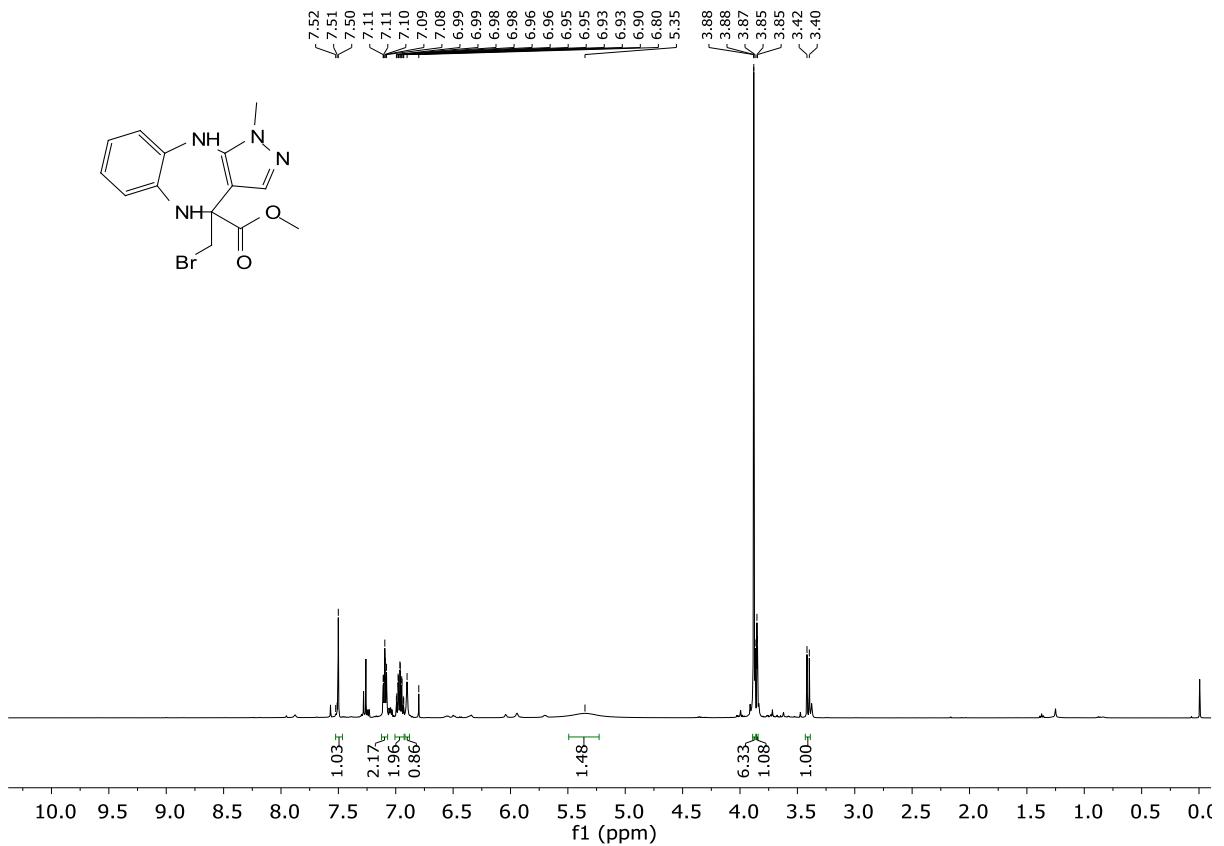


Figure S45 ^1H NMR spectrum of compound **8n** in CDCl_3 (500 MHz)

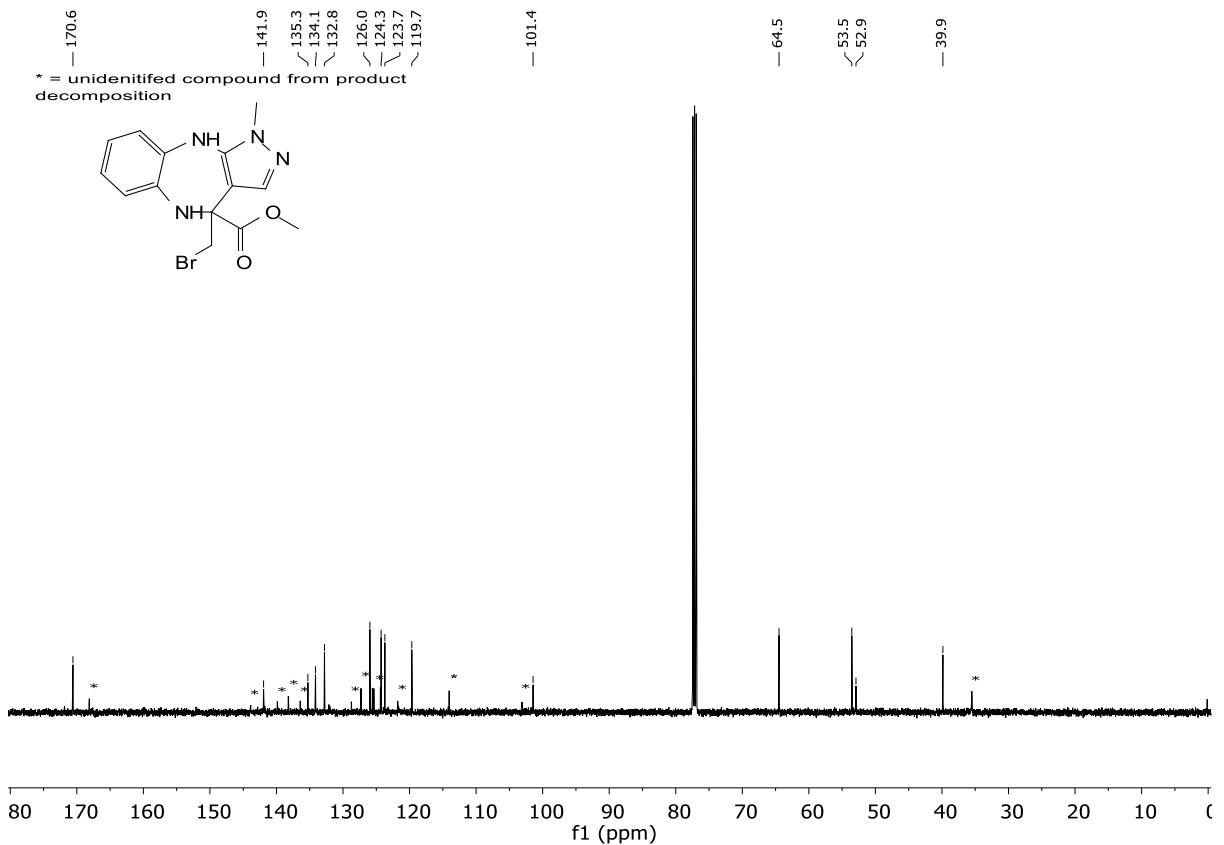


Figure S46 ^{13}C NMR spectrum of compound **8n** in CDCl_3 (125 MHz)