Supplementary Materials

Synthesis and photophysical characterization of fluorescent naphtho[2,3-d]thiazole-4,9-diones and their antimicrobial activity against *Staphylococcus* strains

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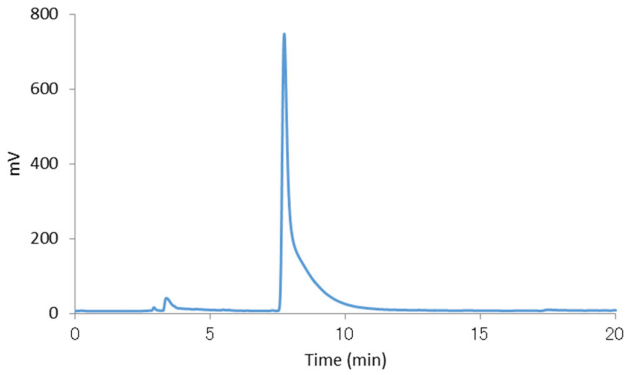

Figure S1. HPLC chromatogram of **5a**. HPLC condition; column: COSMOSIL 5C18-AR-II (4.6 x 250 mm), flow rate: 1 mL/min, temp: 25 °C, eluent: 0.05 % TFA aq. : CH_3CN = 20 : 80, UV: 254 nm, retention time: 7.73 min.

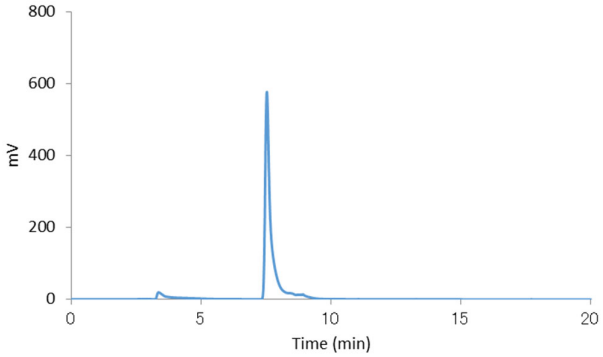

Figure S2. HPLC chromatogram of **5b**. HPLC condition; column: COSMOSIL 5C18-AR-II (4.6 x 250 mm), flow rate: 1 mL/min, temp: 25 °C, eluent: 0.05 % TFA aq. : CH_3CN = 30 : 70, UV: 254 nm, retention time: 7.52 min.

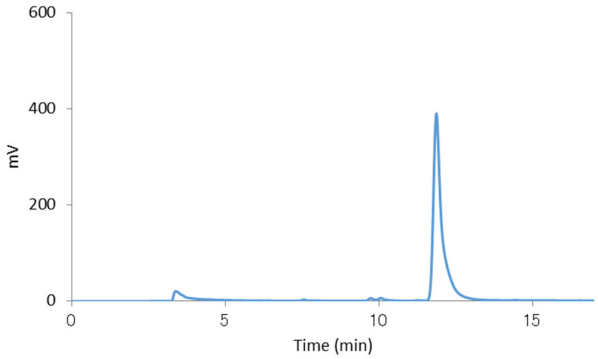

Figure S3. HPLC chromatogram of **5c**. HPLC condition; column: COSMOSIL 5C18-AR-II (4.6 x 250 mm), flow rate: 1 mL/min, temp: 25 °C, eluent: 0.05 % TFA aq. : CH_3CN = 30 : 70, UV: 254 nm, retention time: 11.87 min.

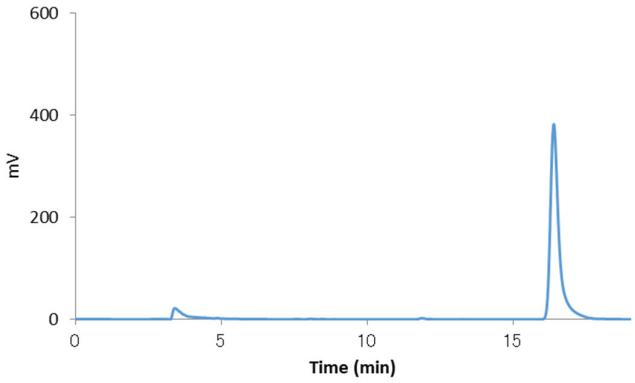

Figure S4. HPLC chromatogram of **5d**. HPLC condition; column: COSMOSIL 5C18-AR-II (4.6 x 250 mm), flow rate: 1 mL/min, temp: 25 °C, eluent: 0.05 % TFA aq. : CH_3CN = 30 : 70, UV: 254 nm, retention time: 16.38 min.

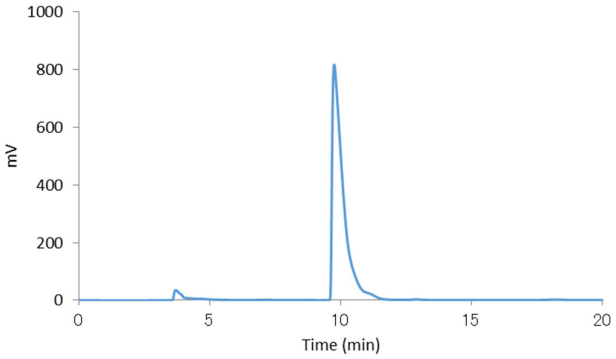

Figure S5. HPLC chromatogram of **5e**. HPLC condition; column: COSMOSIL 5C18-AR-II (4.6 x 250 mm), flow rate: 1 mL/min, temp: 25 °C, eluent: 0.05 % TFA aq. : CH_3CN = 55 : 45, UV: 254 nm, retention time: 9.76 min.

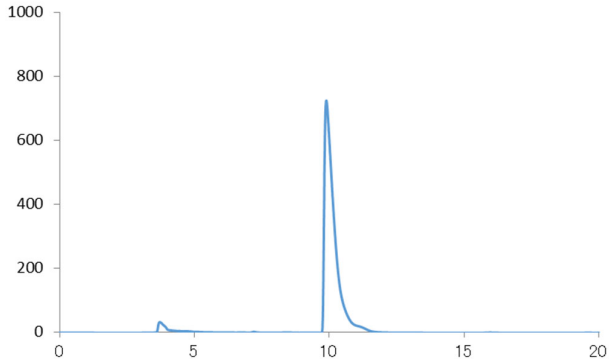

Figure S6. HPLC chromatogram of **PNT**. HPLC condition; column: COSMOSIL 5C18-AR-II (4.6 x 250 mm), flow rate: 1 mL/min, temp: 25 °C, eluent: 0.05 % TFA aq. : CH_3CN = 55 : 45, UV: 254 nm, retention time: 9.89 min.

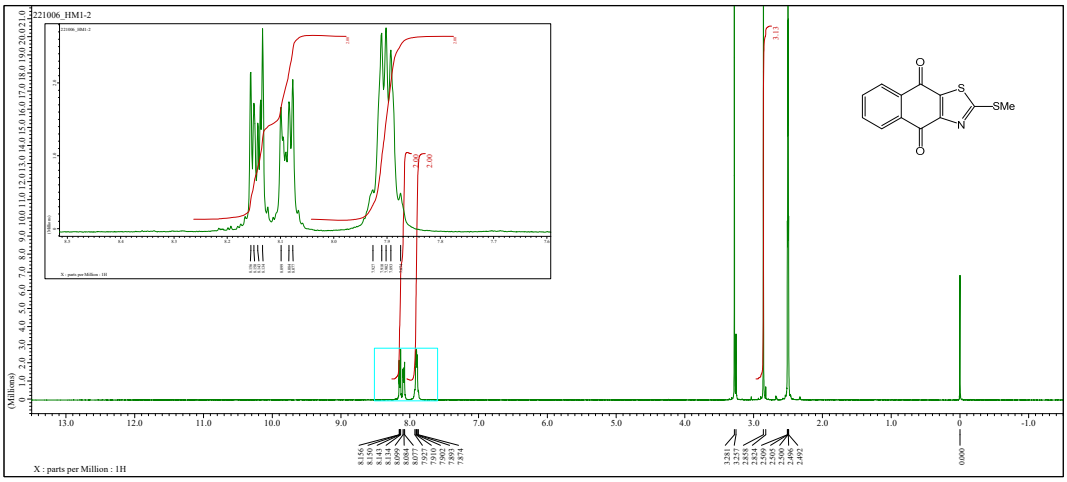

Figure S7. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **2**

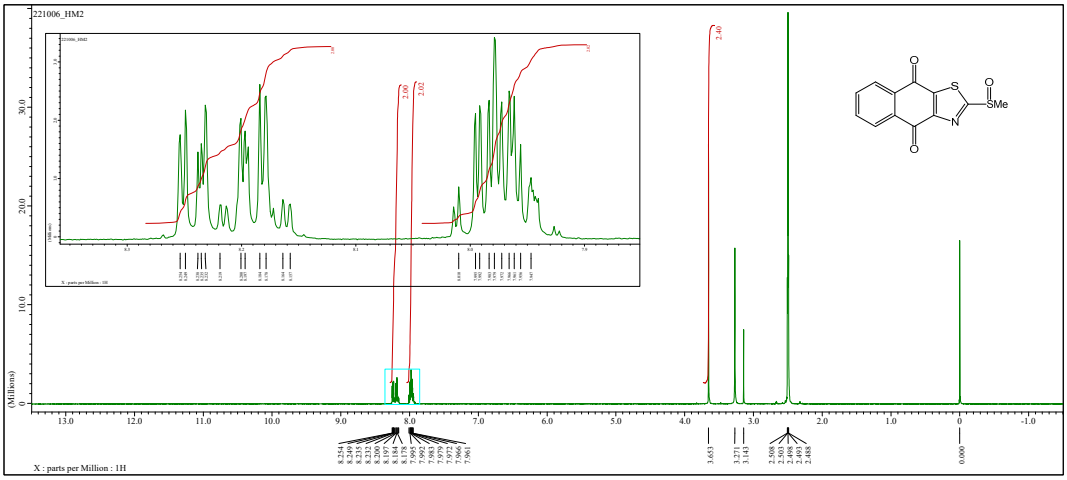

Figure S8. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **3**

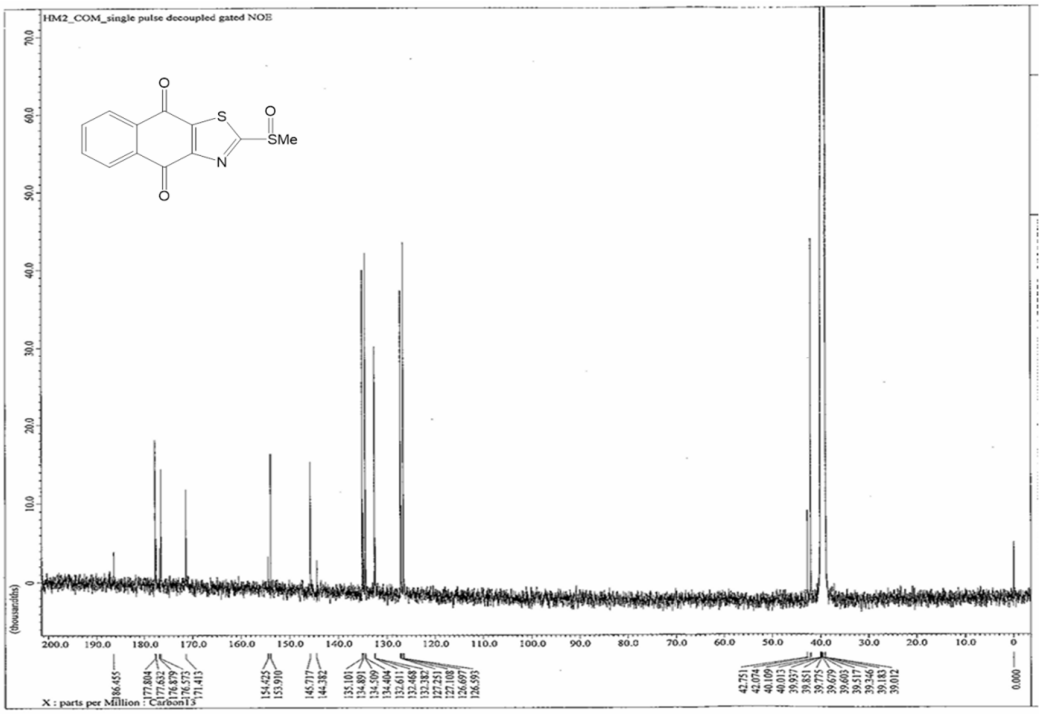

Figure S9. ^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **3**

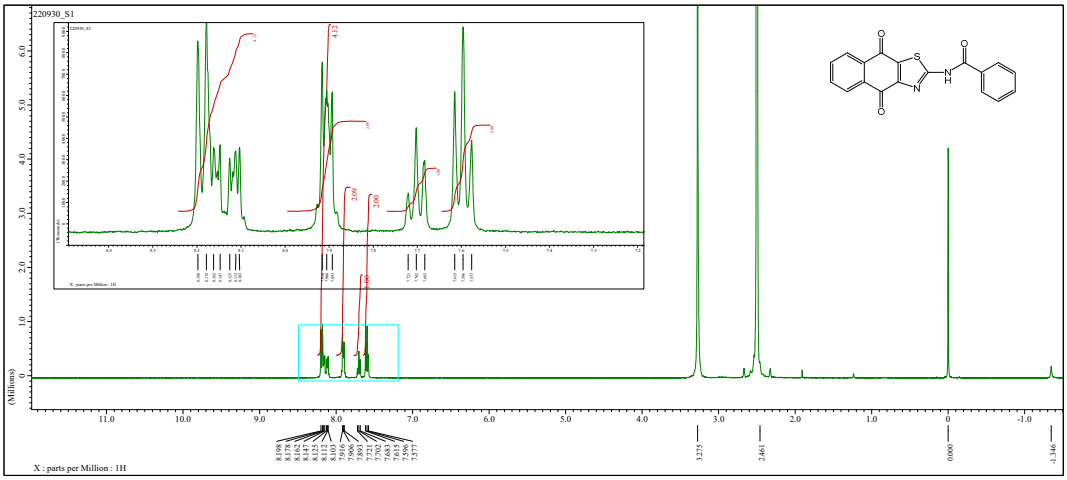

Figure S10. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **5a**

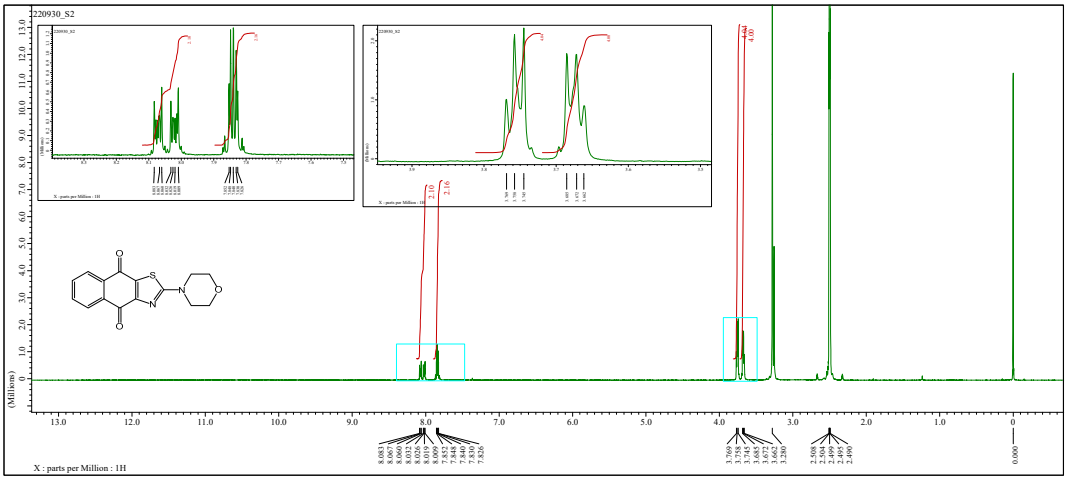

Figure S11. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **5b**

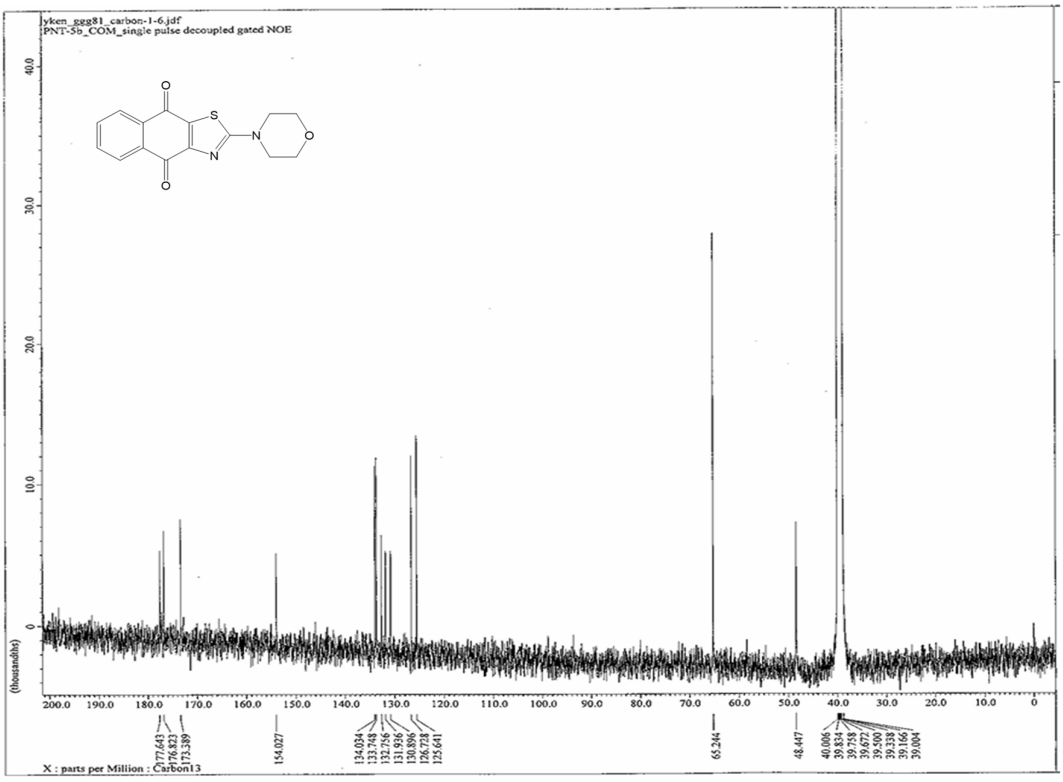

Figure S12. ^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **5b**

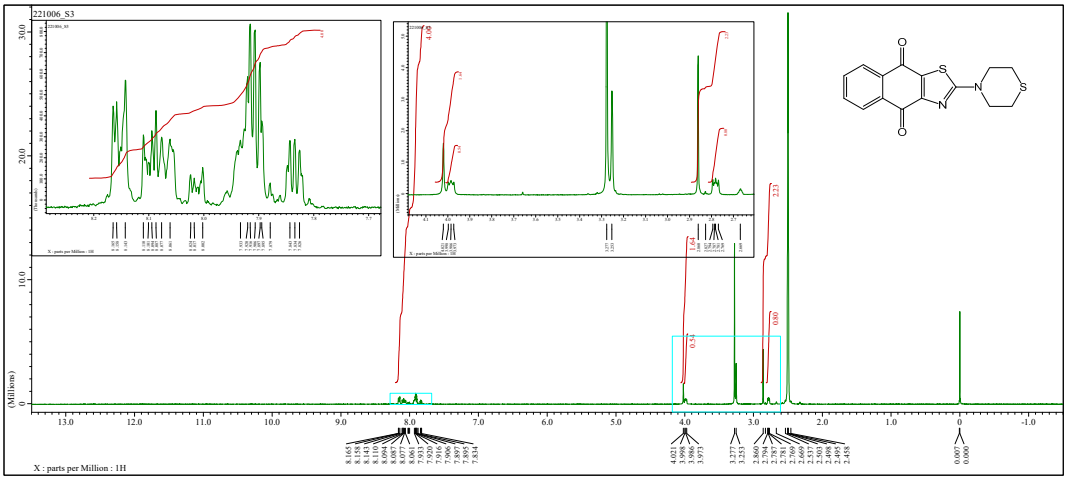

Figure S13. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **5c**

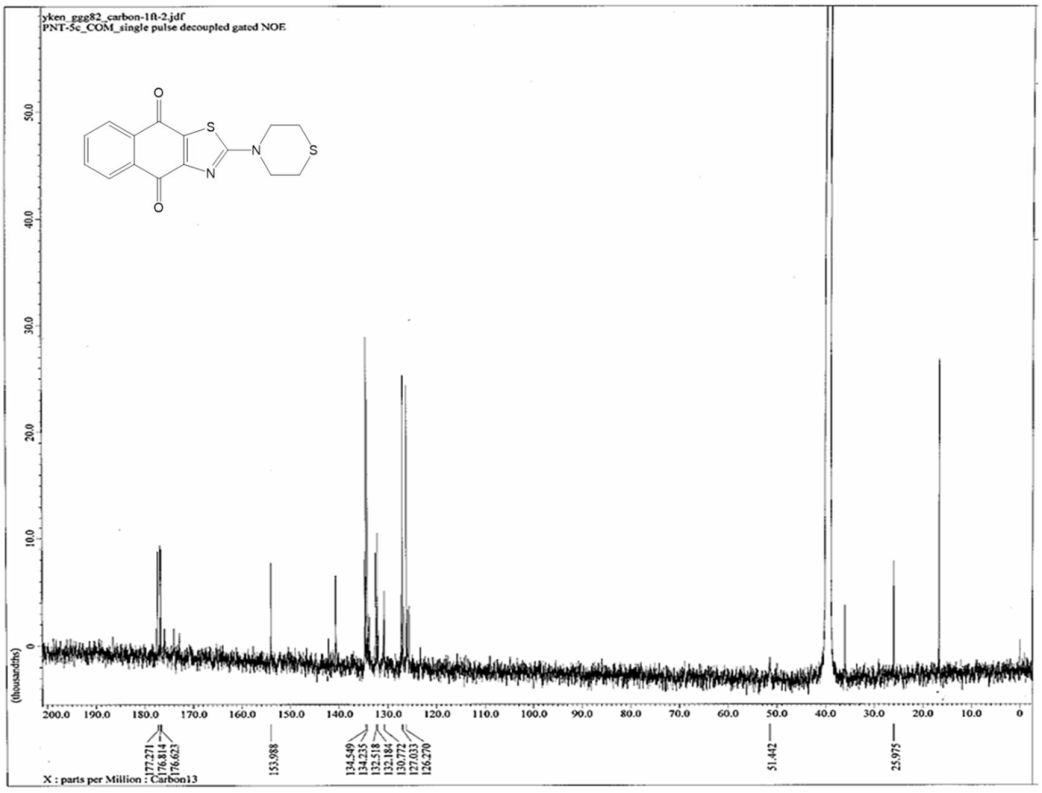

Figure S14. ^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **5c**

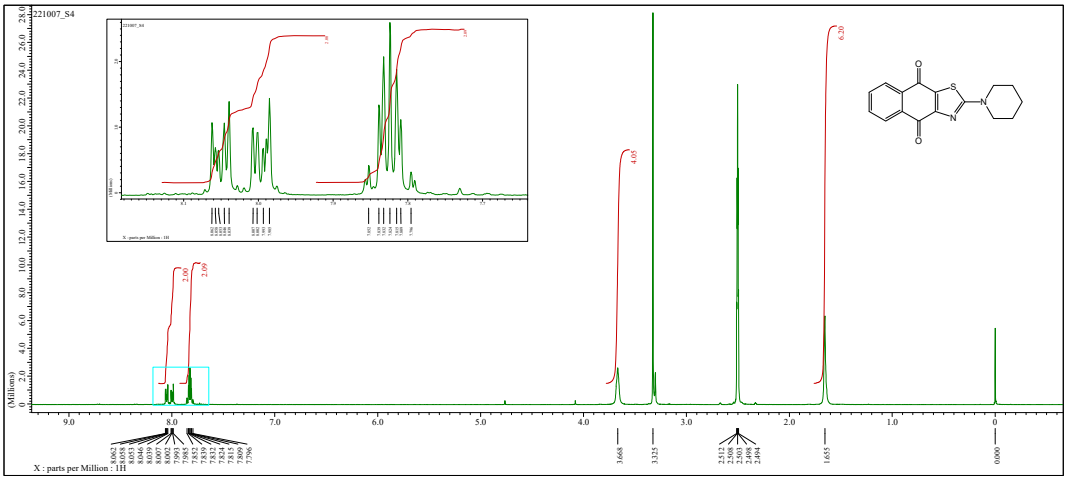

Figure S15. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **5d**

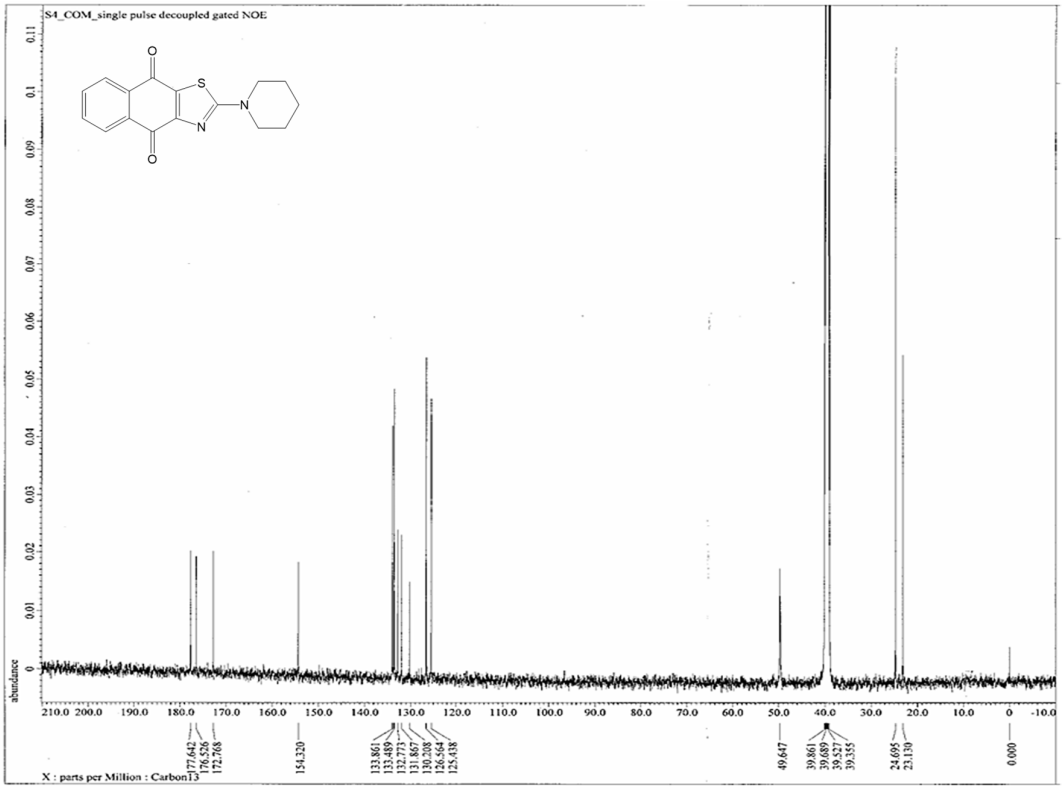

Figure S16. ^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **5d**

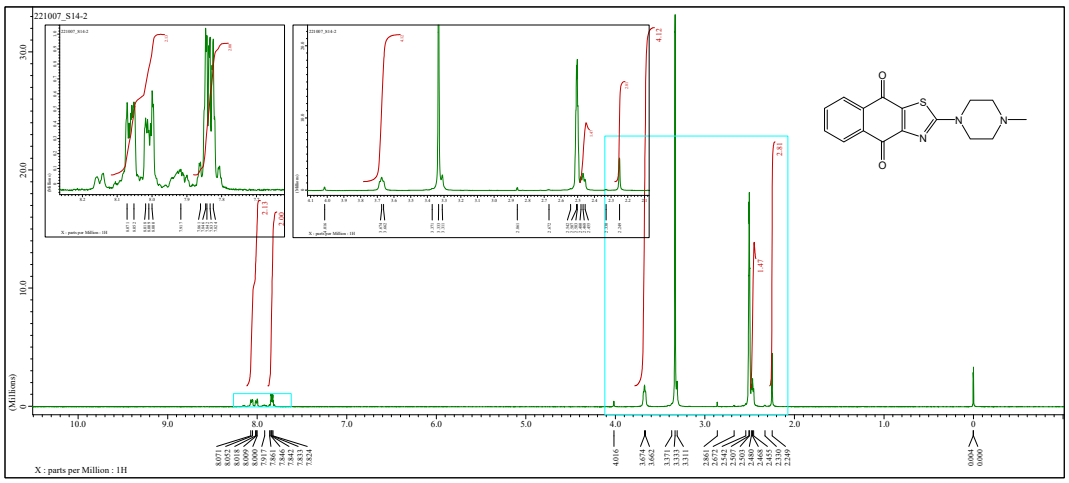

Figure S17. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **5e**

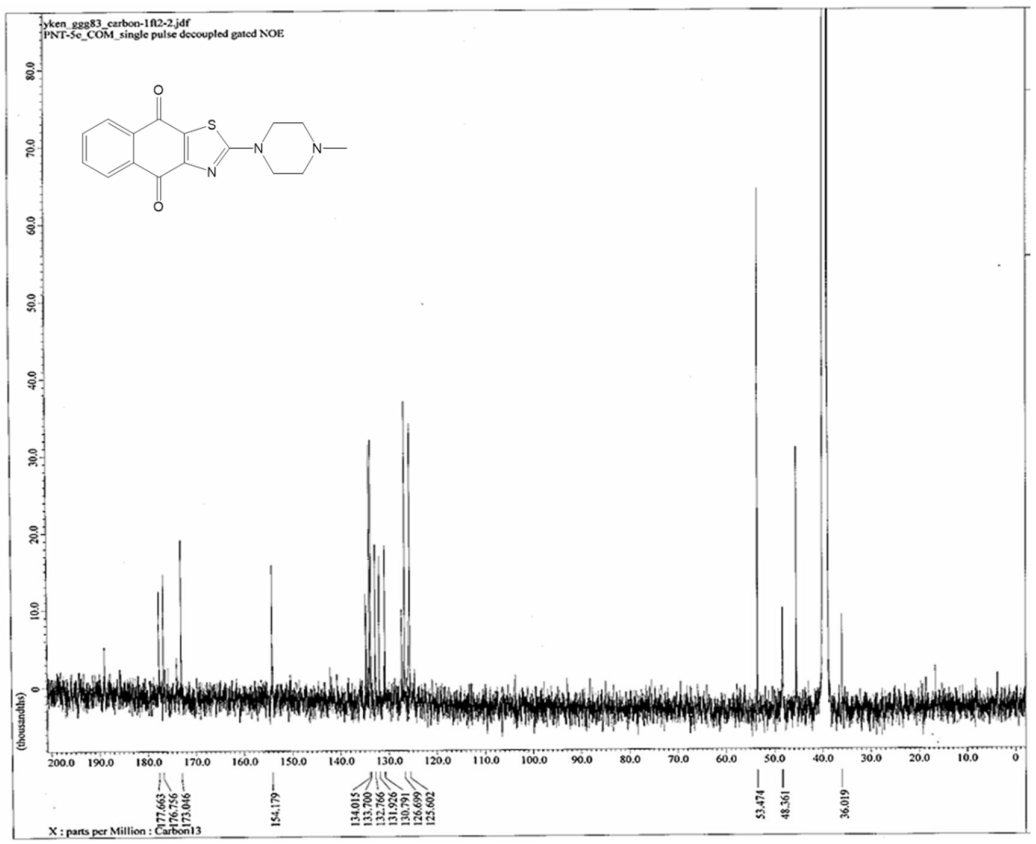

Figure S18. ^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **5e**

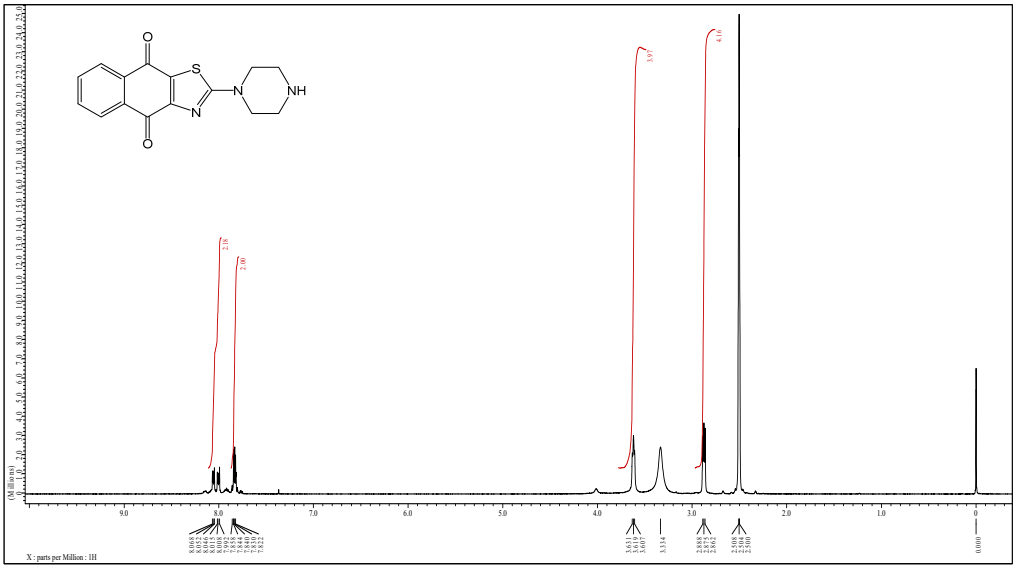

Figure S19. ^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **PNT** [22]

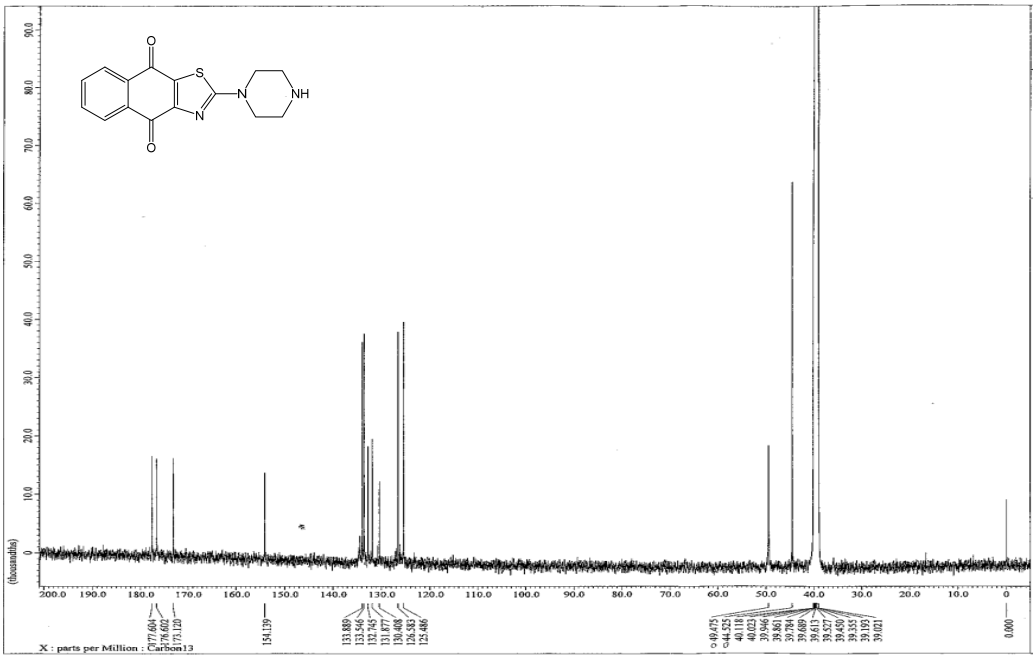

Figure S20. ^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **PNT** [22]