

Supplementary Information

Synthesis, *in vitro* Antiproliferative and Anti-*Mycobacterium tuberculosis* Activities of Novel β -Carboline Derivatives

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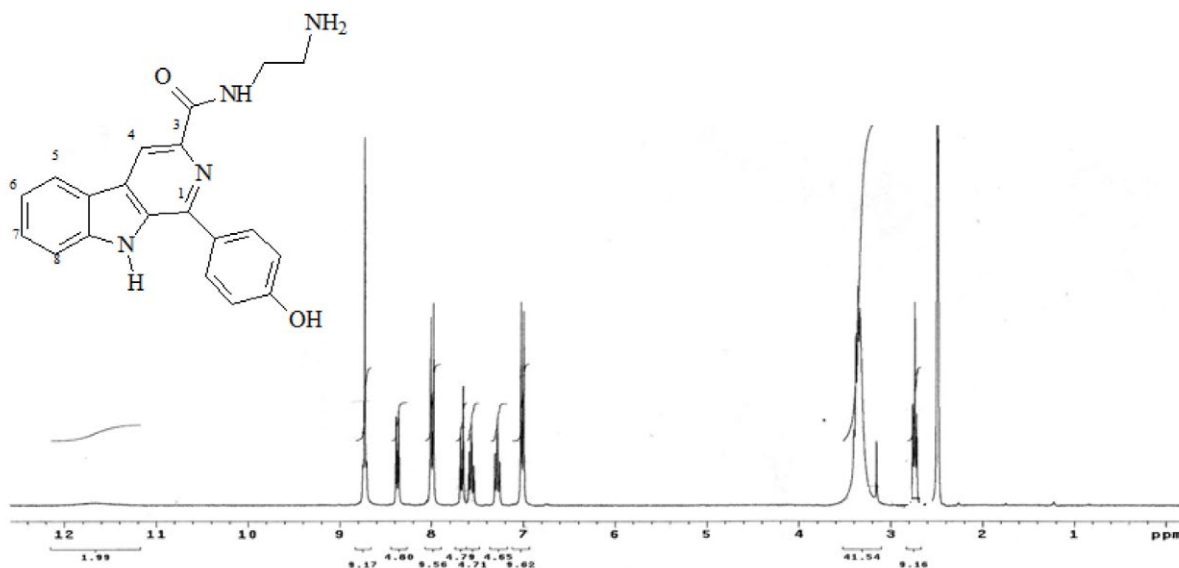


Figure S1. ¹H NMR spectra (300 MHz, DMSO-*d*₆) of compound 2a.

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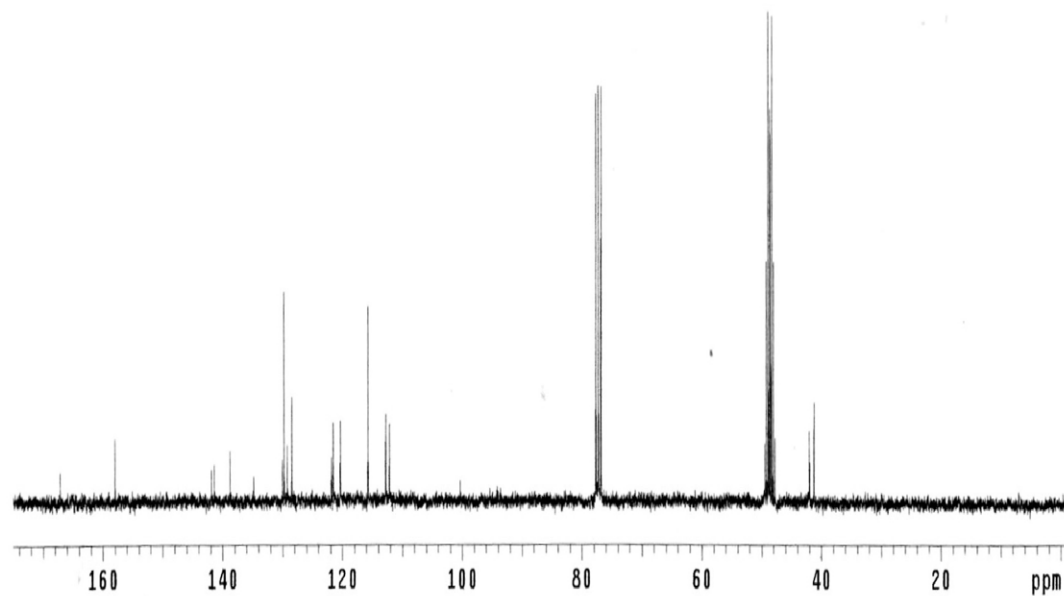


Figure S2. ^{13}C NMR spectra (75.5 MHz, $\text{DMSO}-d_6$) of compound **2a**.

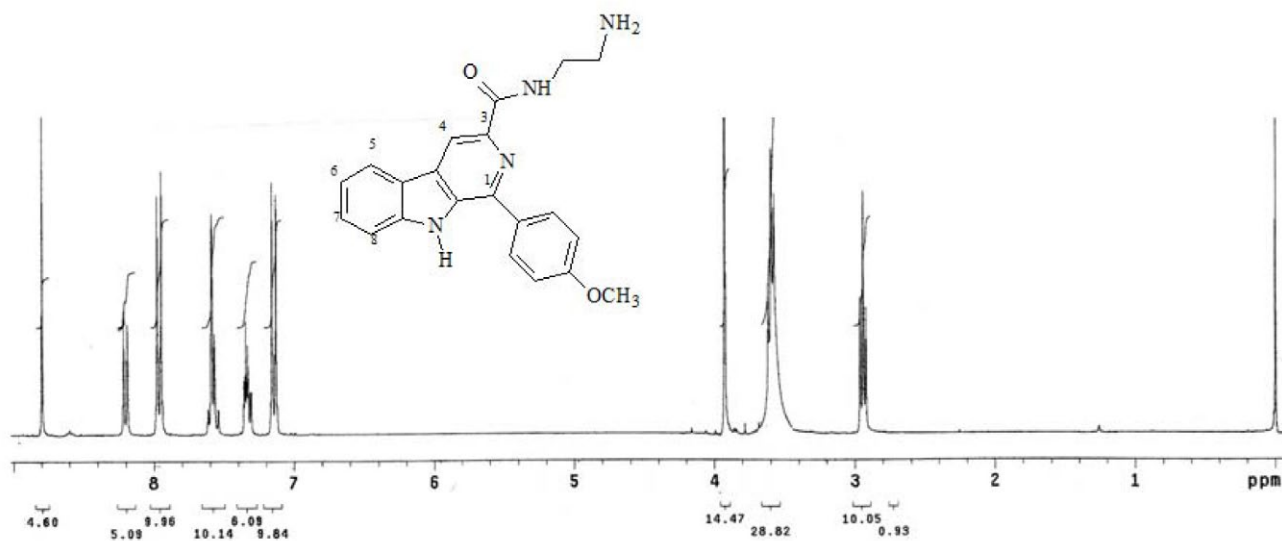


Figure S3. ^1H NMR spectra (300 MHz, $\text{CDCl}_3/\text{CD}_3\text{OD}$) of compound **2b**.

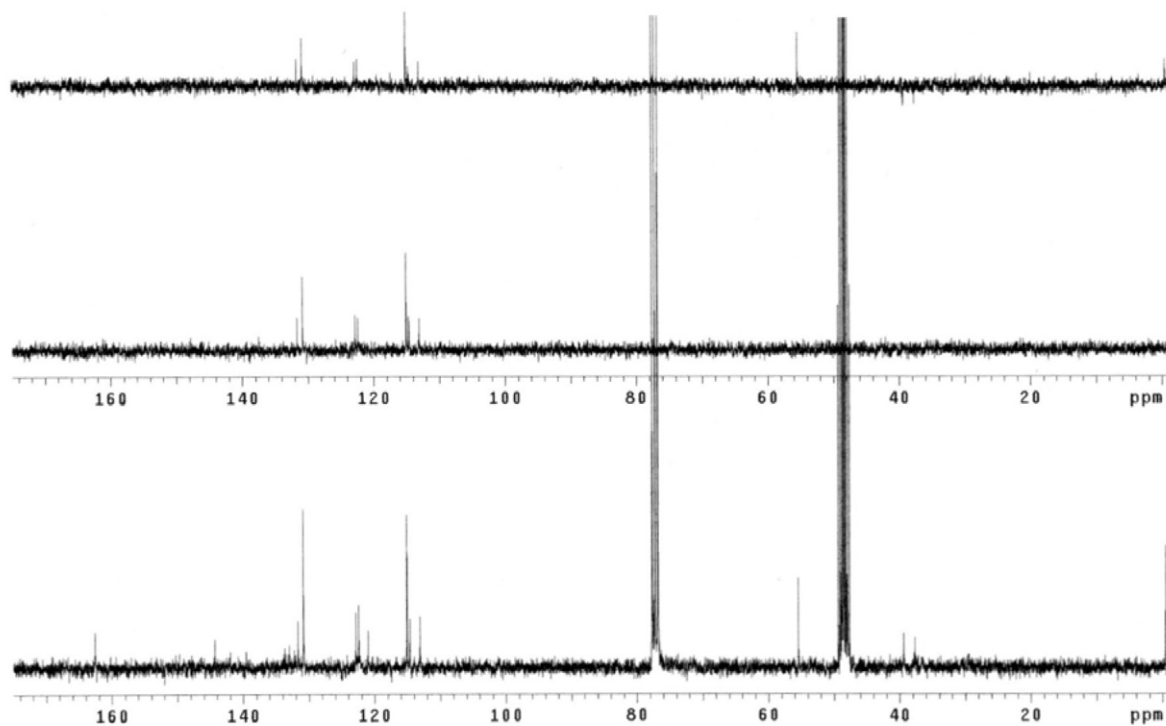


Figure S4. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{CDCl}_3/\text{CD}_3\text{OD}$) of compound **2b**.

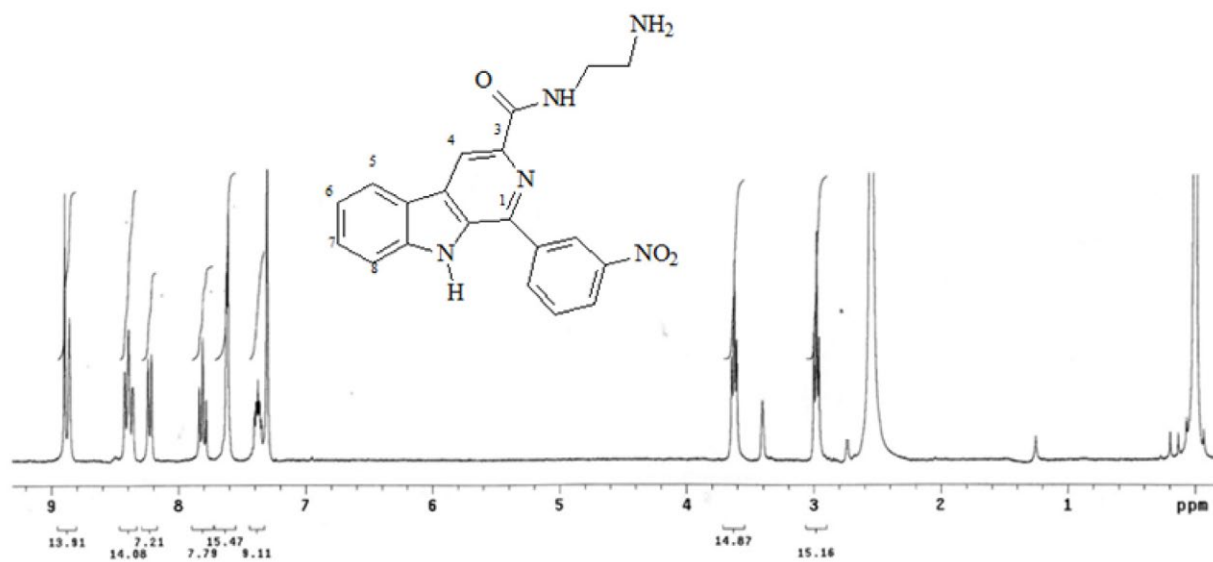


Figure S5. ^1H NMR spectra (300 MHz, $\text{CDCl}_3/\text{CD}_3\text{OD}$) of compound **2c**.

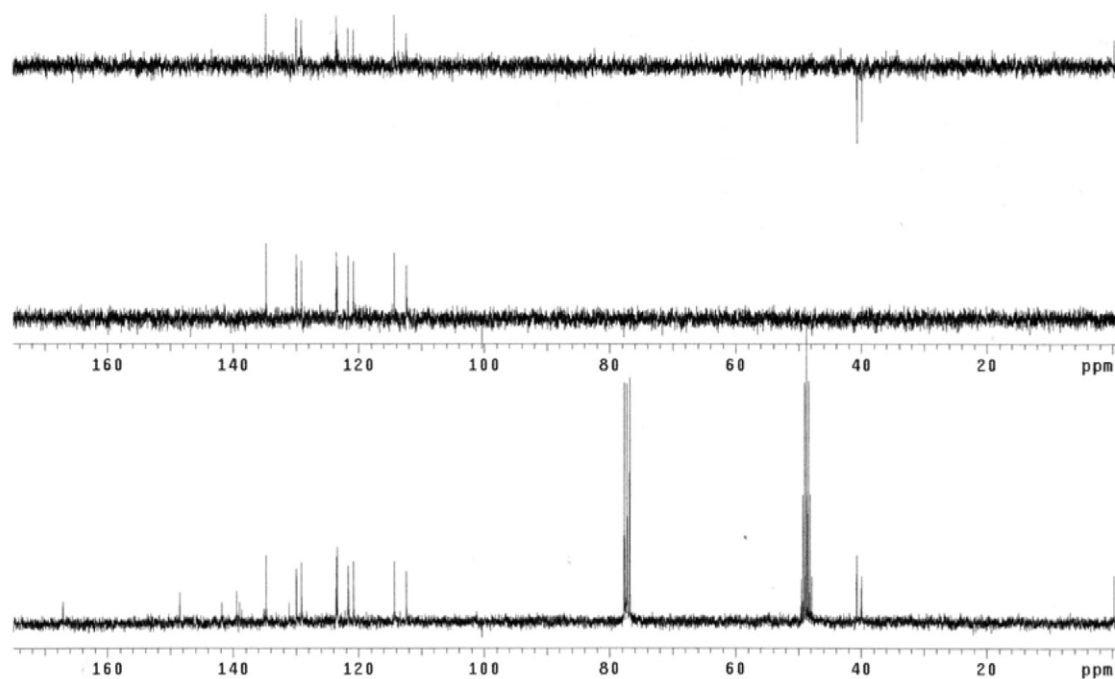


Figure S6. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{CDCl}_3/\text{CD}_3\text{OD}$) of compound **2c**.

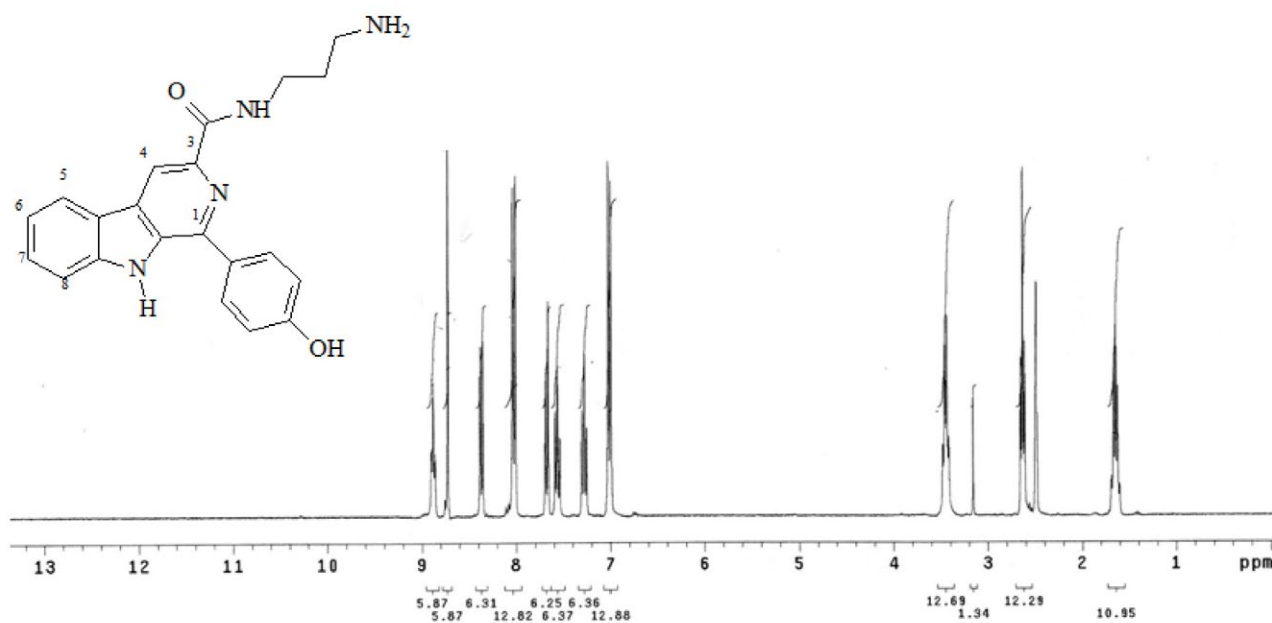


Figure S7. ^1H NMR spectra (300 MHz, $\text{DMSO}-d_6$) of compound **3a**.

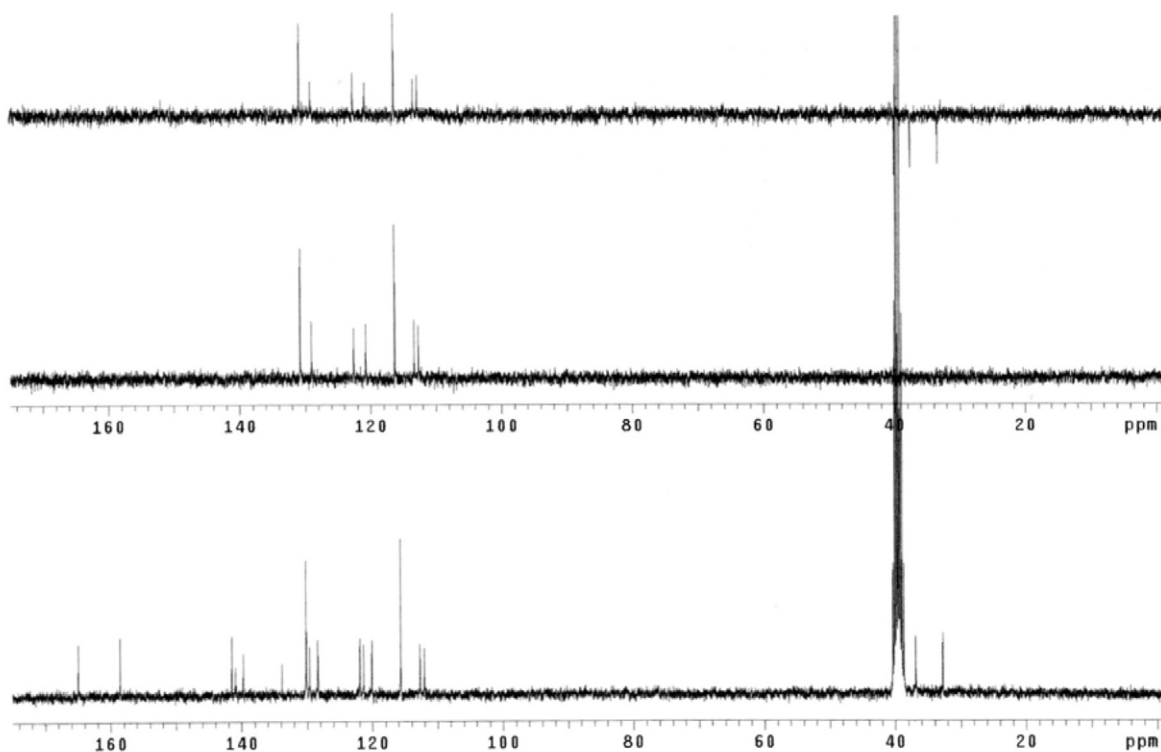


Figure S8. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{DMSO}-d_6$) of compound **3a**.

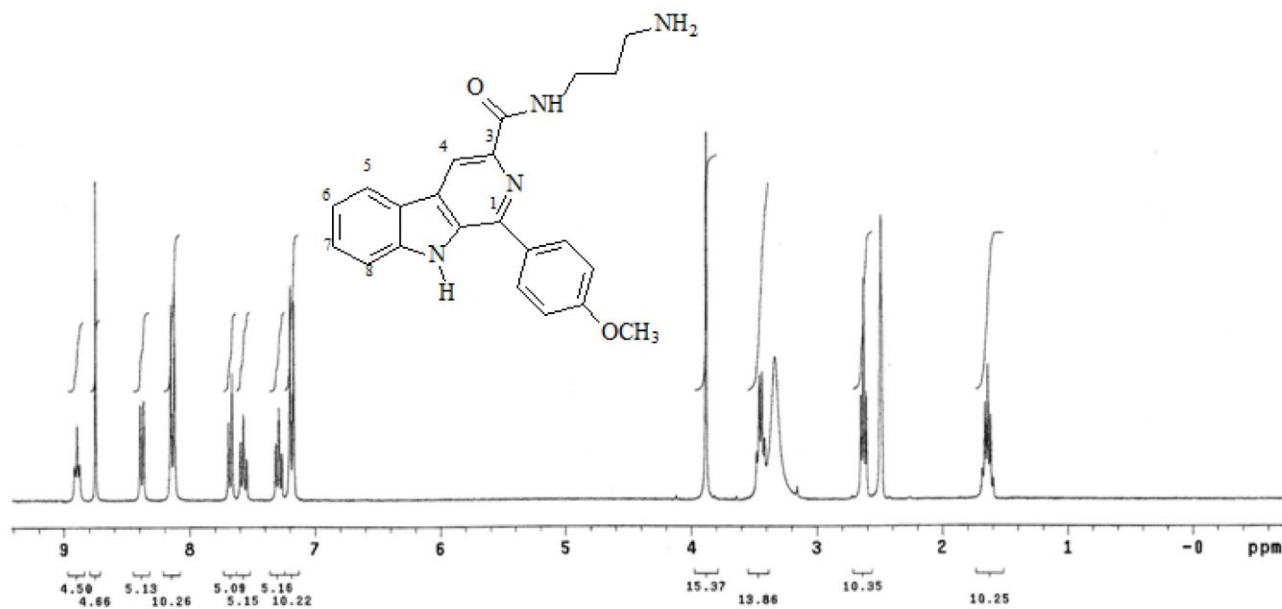


Figure S9. ^1H NMR spectra (300 MHz, $\text{DMSO}-d_6$) of compound **3b**.

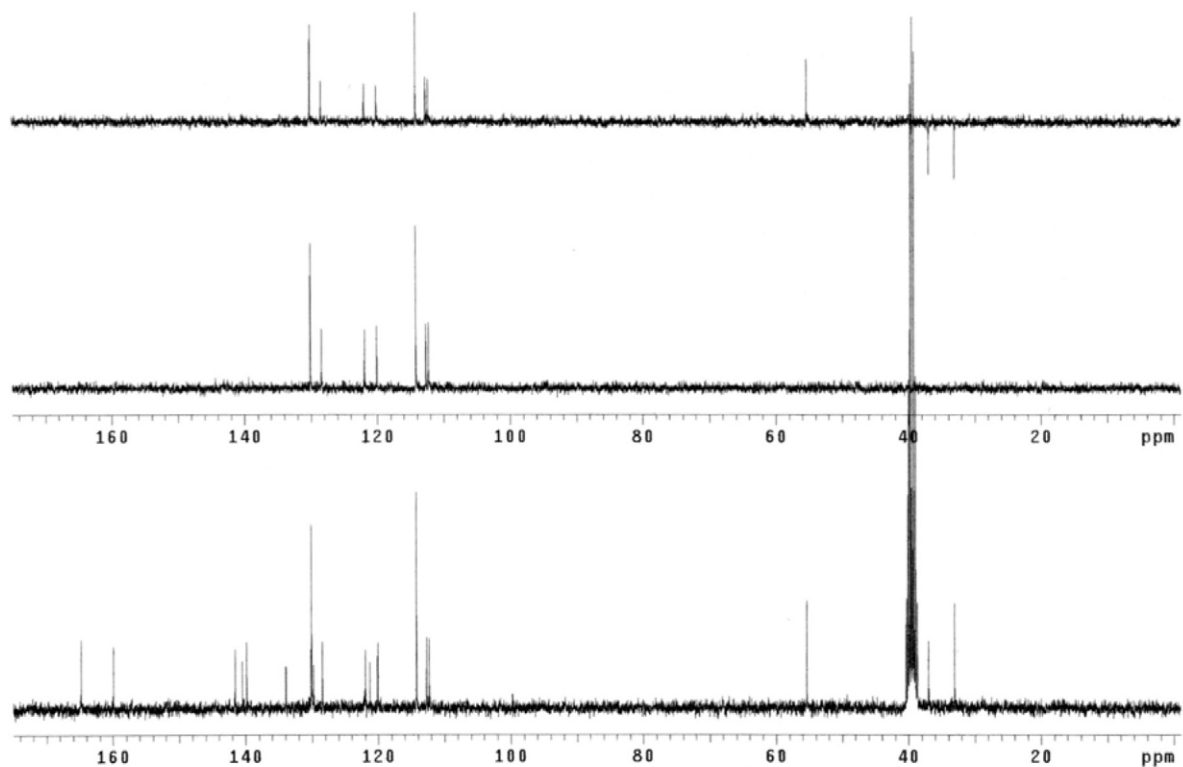


Figure S10. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{DMSO-}d_6$) of compound **3b**.

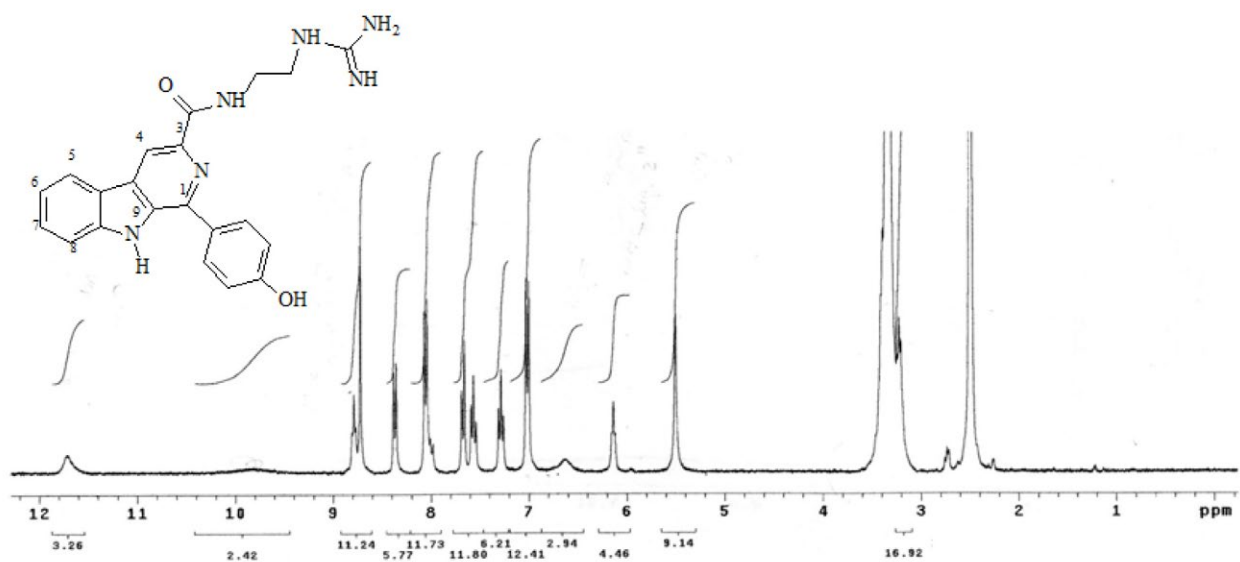


Figure S11. ^1H NMR spectra (300 MHz, $\text{DMSO-}d_6$) of compound **4a**.

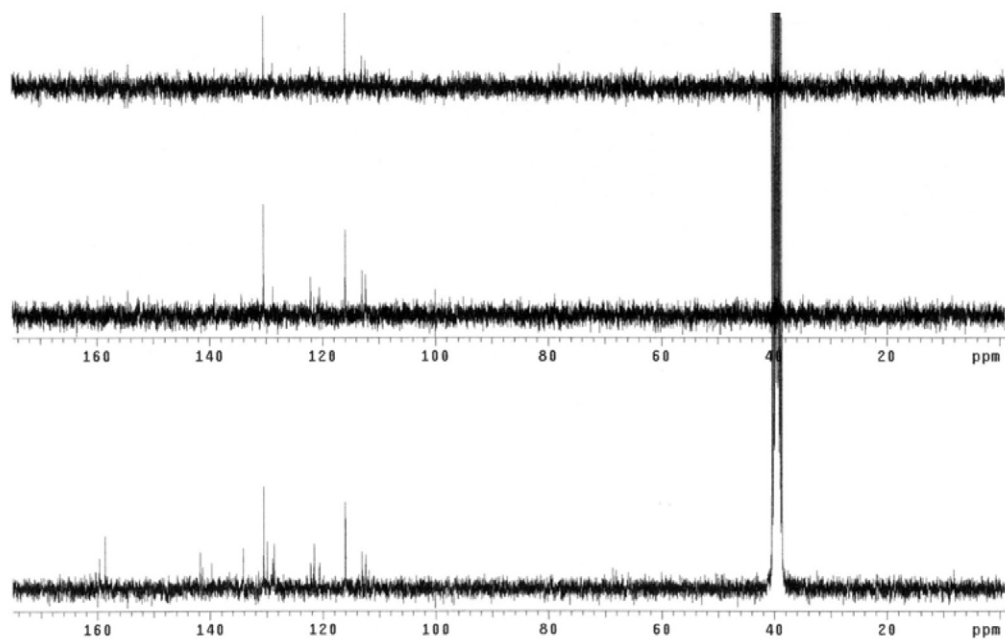


Figure S12. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{DMSO}-d_6$) of compound **4a**.

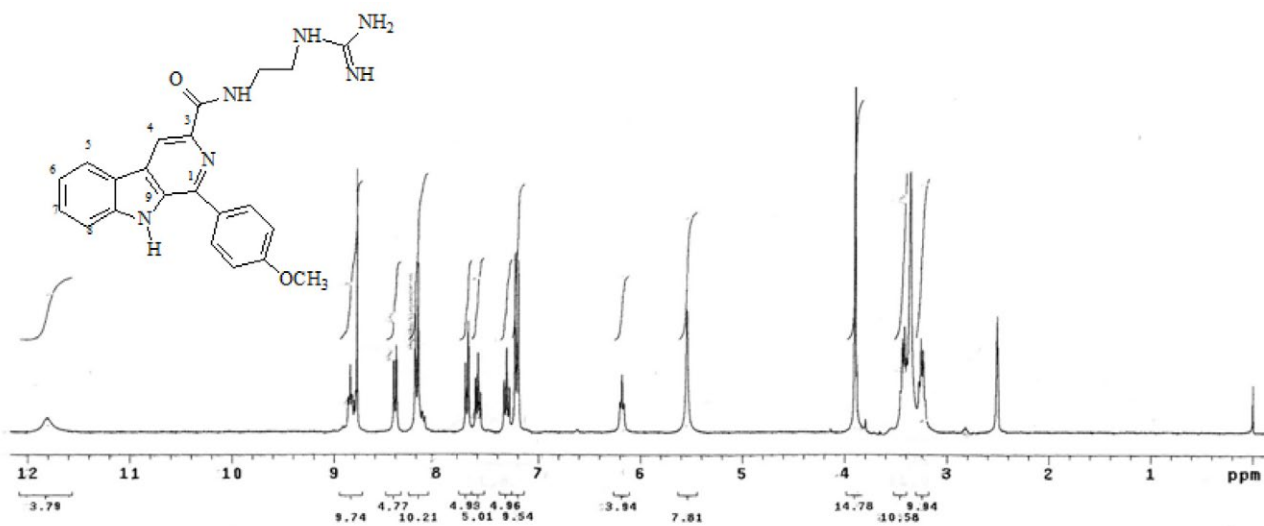


Figure S13. ^1H NMR spectra (300 MHz, $\text{DMSO}-d_6$) of compound **4b**.

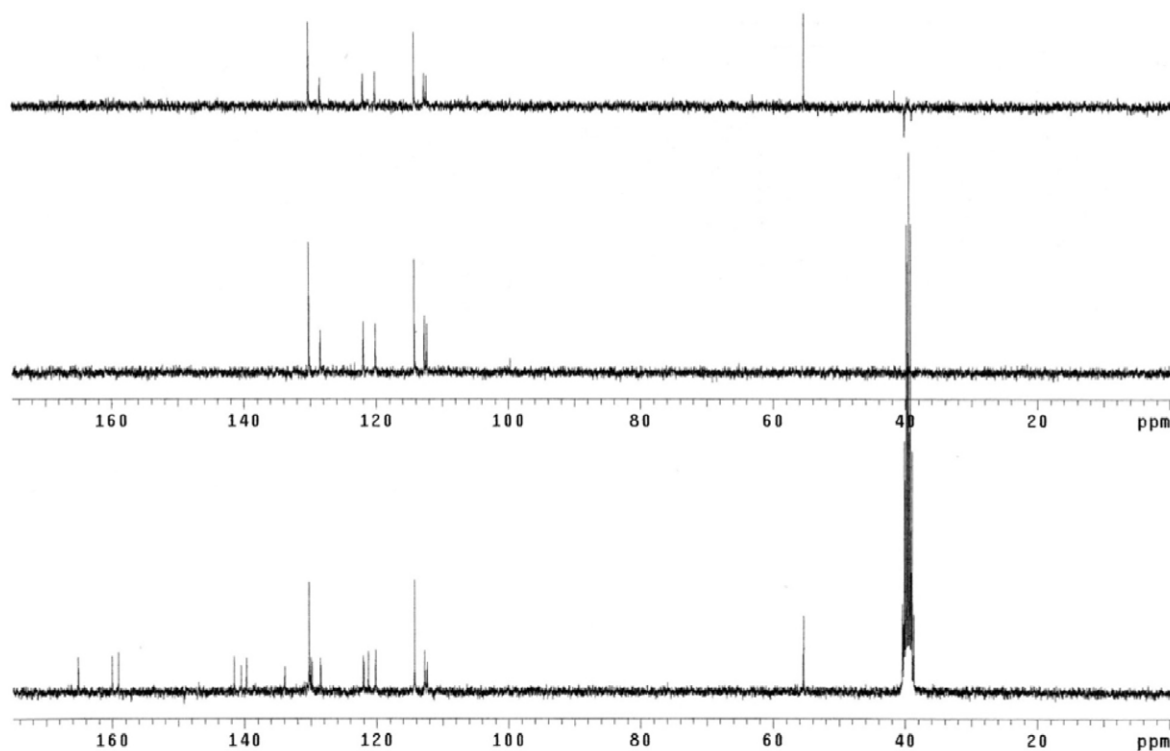


Figure S14. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{DMSO}-d_6$) of compound **4b**.

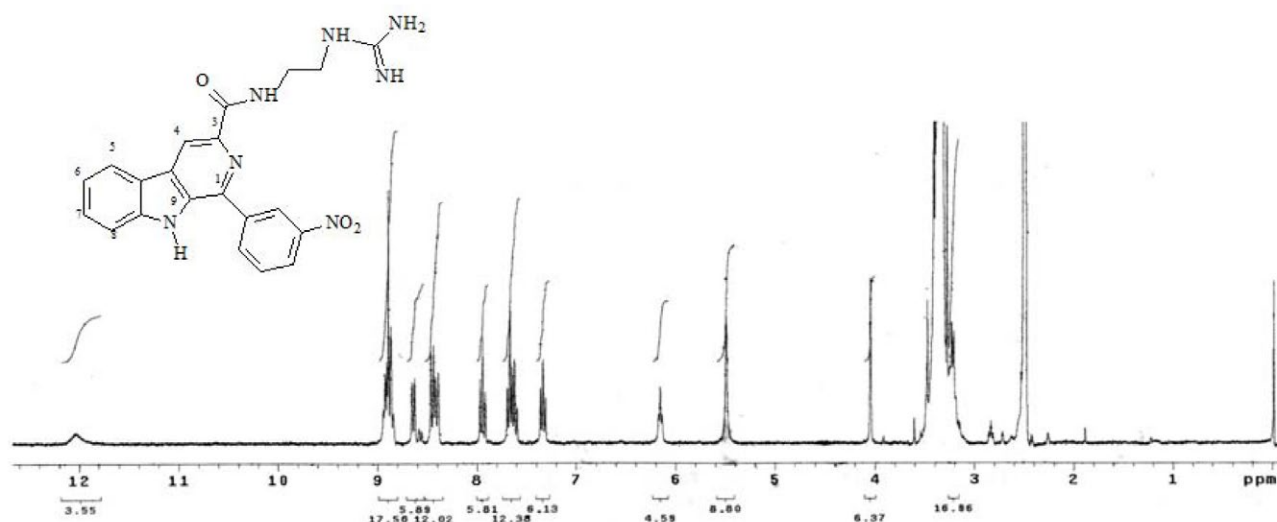


Figure S15. ^1H NMR spectra (300 MHz, $\text{DMSO}-d_6$) of compound **4c**.

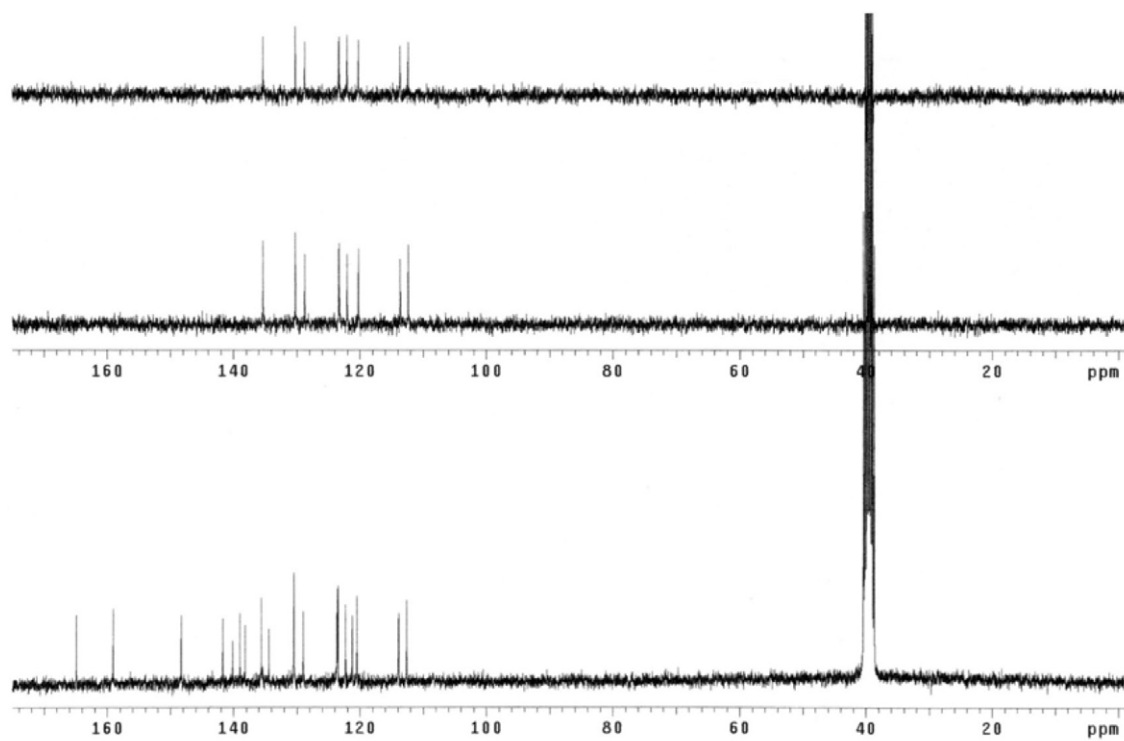


Figure S16. ^{13}C NMR/DEPT spectra (75.5 MHz, $\text{DMSO}-d_6$) of compound **4c**.