

Supplementary Files

Synthesis, Characterization, and Anticancer Activity of Benzothiazole Aniline Derivatives and Their Platinum (II) Complexes as a New Chemotherapy Agents

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Contents

1.	Figure S1. ^1H NMR spectrum of compound L2 .	S3
2.	Figure S2. High resolution-FAB- mass spectrum of compound L2 .	S3
3.	Figure S3. FTIR spectrum of compound L2 .	S4
4.	Figure S4. ^1H NMR spectrum of compound L3 .	S5
5.	Figure S5. High resolution-FAB- mass spectrum of compound L3 .	S5
6.	Figure S6. ^1H NMR spectrum of compound L1Pt .	S6
7.	Figure S7. ^{195}Pt NMR spectrum of compound L1Pt .	S6
8.	Figure S8. High resolution-FAB- mass spectrum of compound L1Pt .	S7
9.	Figure S9. ^1H NMR spectrum of compound L2Pt .	S7
10.	Figure S10. FTIR spectrum of compound L2Pt .	S8
11.	Figure S11. High resolution-FAB- mass spectrum of compound L2Pt .	S8
12.	Figure S12. ^1H NMR spectrum of compound L3Pt .	S9
13.	Figure S13. Maldi-tof mass spectrum of compound L3Pt .	S9
14.	Figure 14. Time-dependent UV-Vis absorption spectra of L1 and L1Pt .	S10
15.	Figure 15. Molecular docking of BTA, L1 , and L1Pt with DNA.	S10
16.	Figure 16. Molecular docking of BTA, L1 , and L1Pt with DNA.	S11

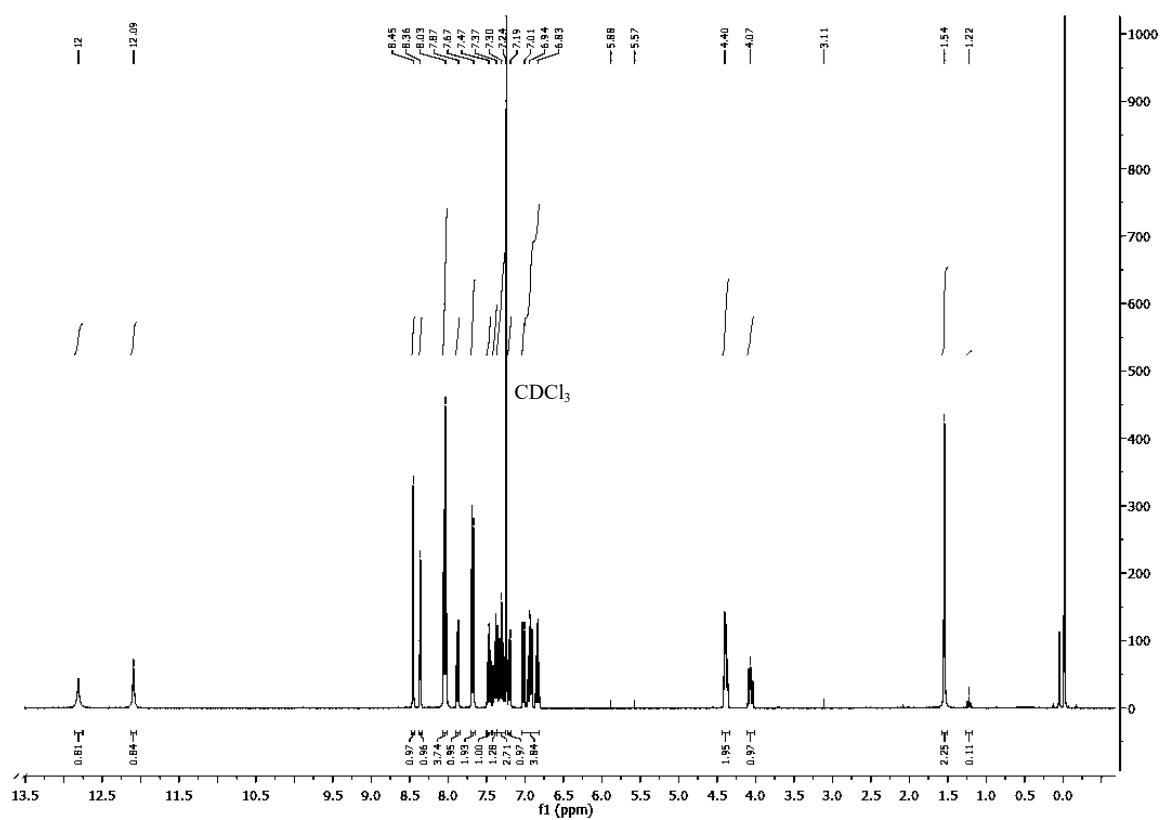


Figure S1. ¹H NMR spectrum of compound L2.

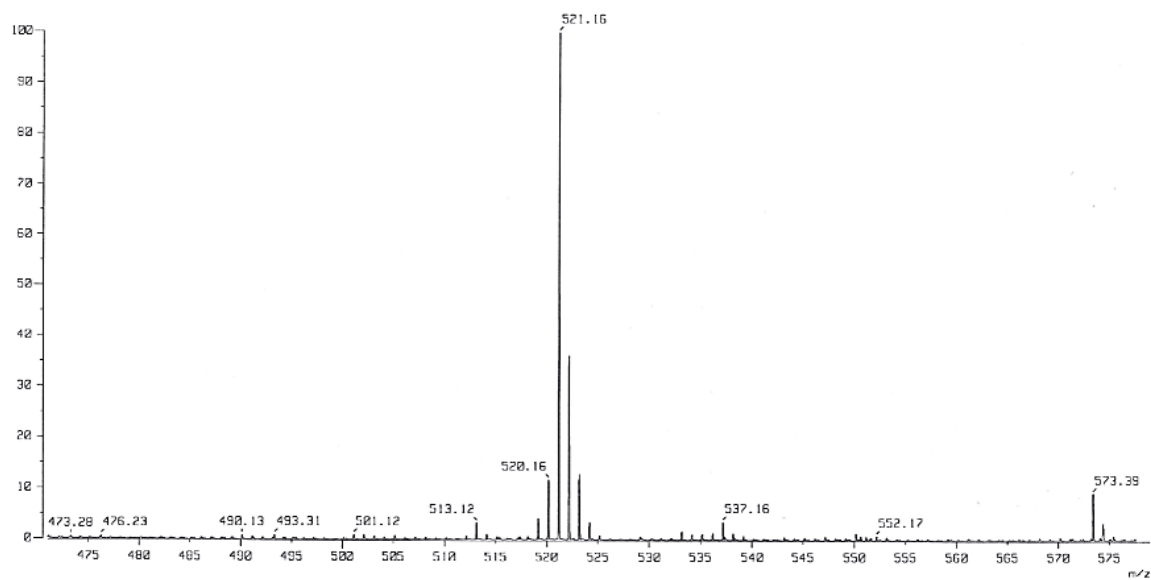


Figure S2. High resolution-FAB- mass spectrum of compound L2.

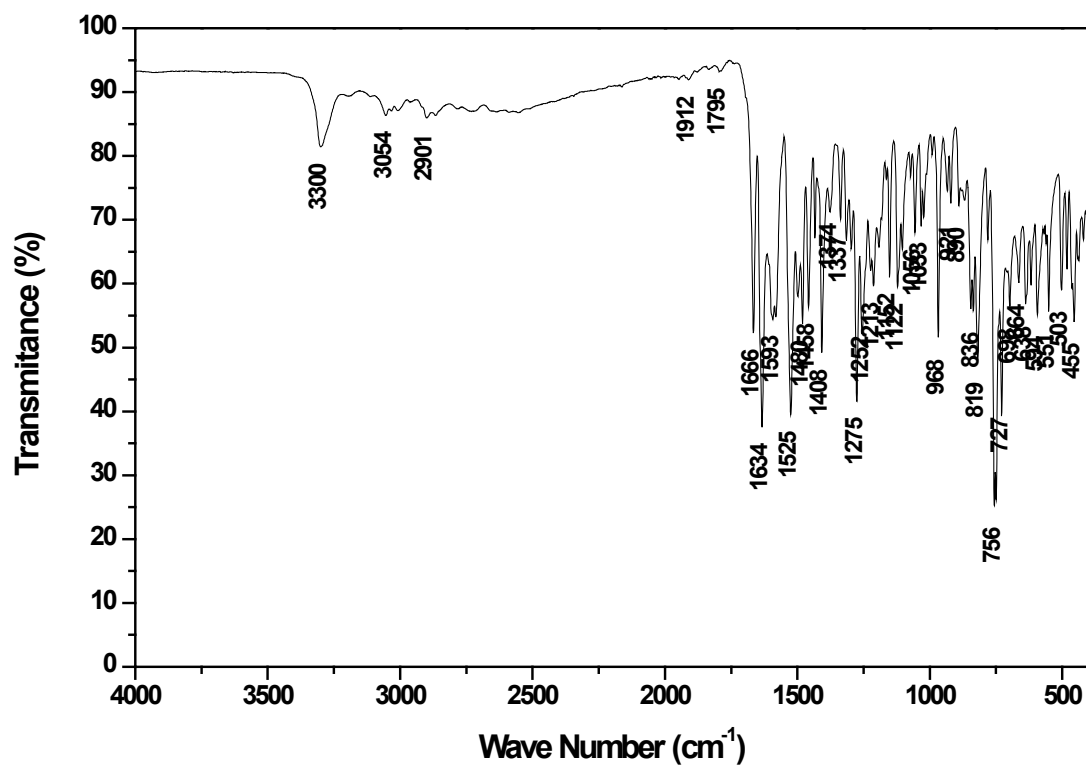


Figure S3. FTIR spectrum of compound L2.

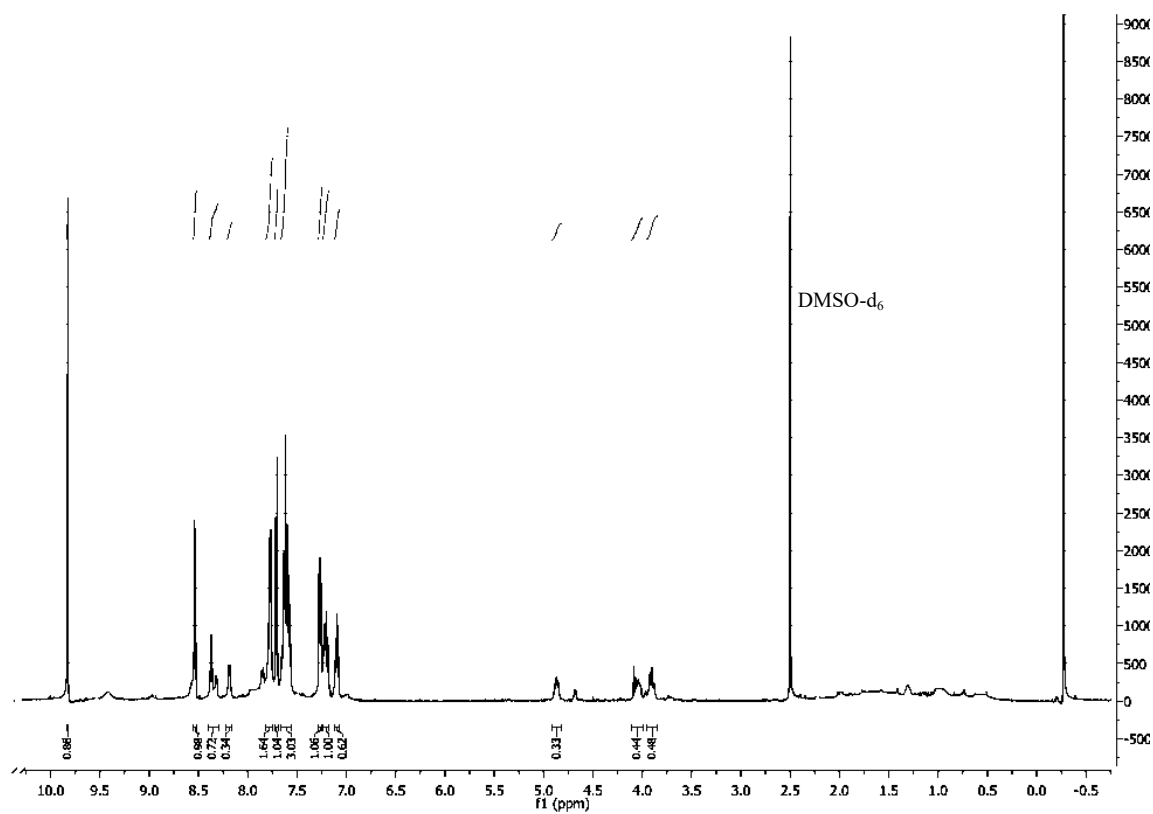


Figure S4. ¹H NMR spectrum of compound L3.

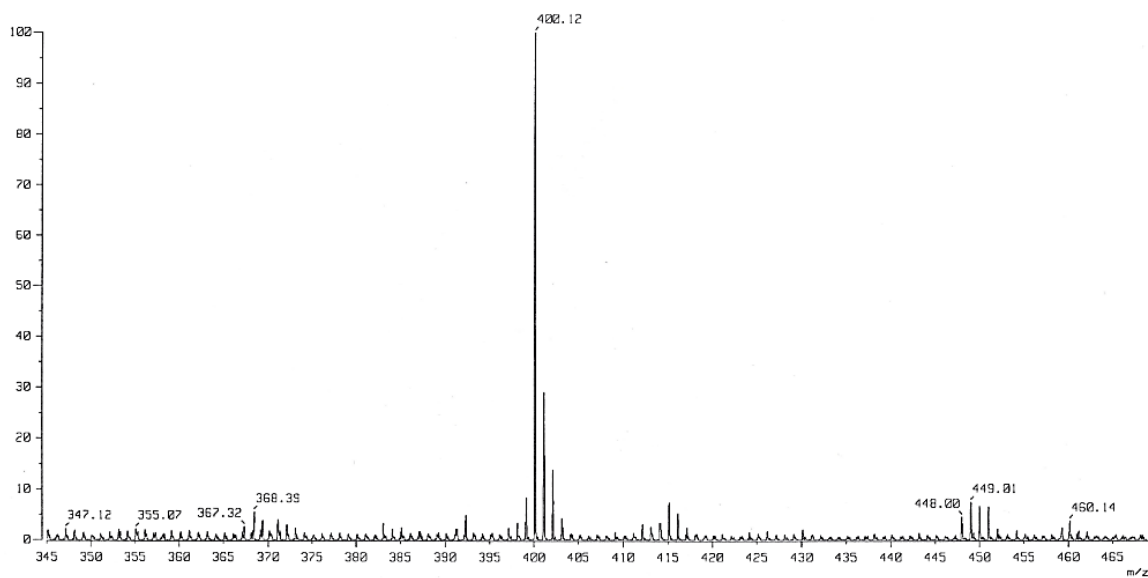


Figure S5. High resolution-FAB- mass spectrum of compound L3.

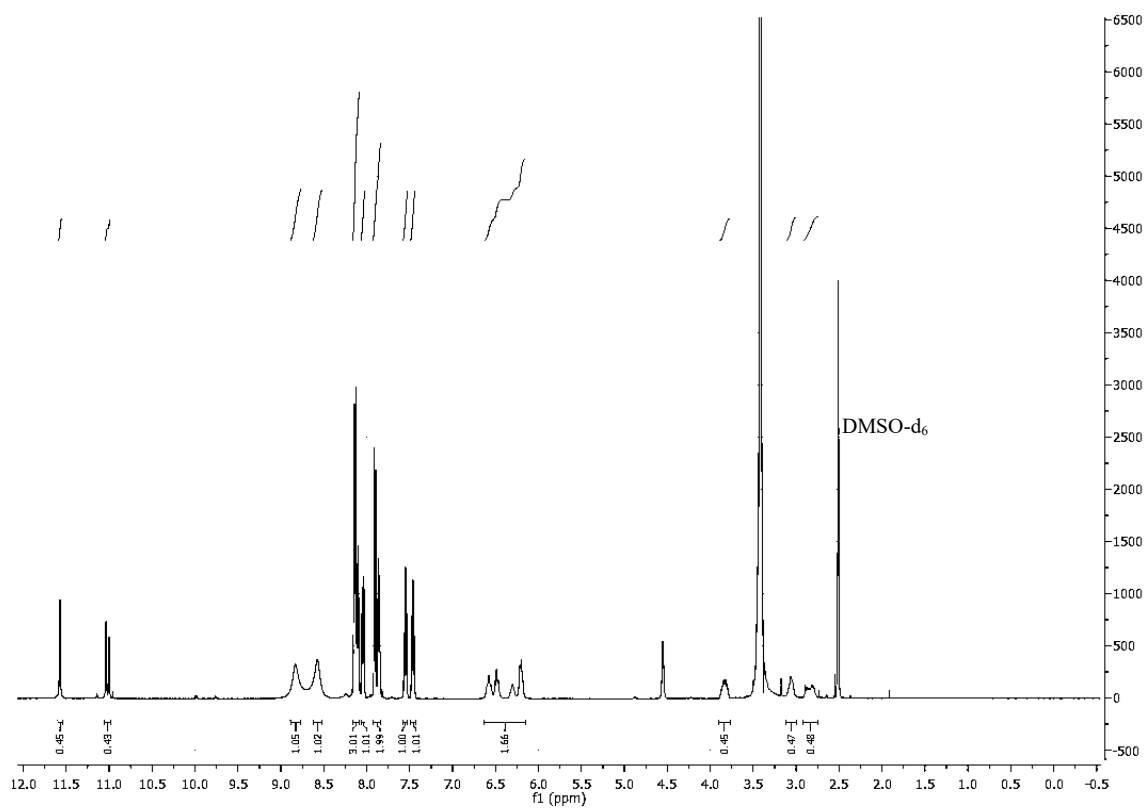


Figure S6. ^1H NMR spectrum of compound **L1Pt**.

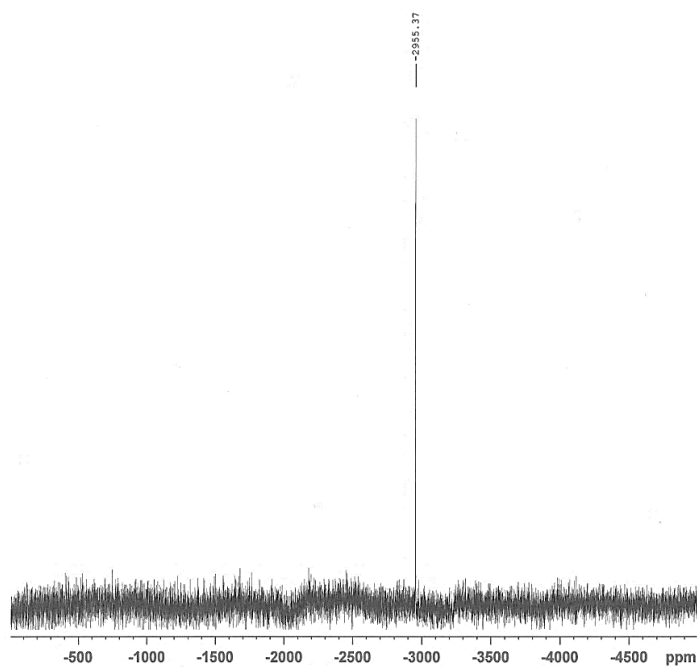


Figure S7. ^{195}Pt NMR chemical shift (ppm) of compound **L1Pt**.

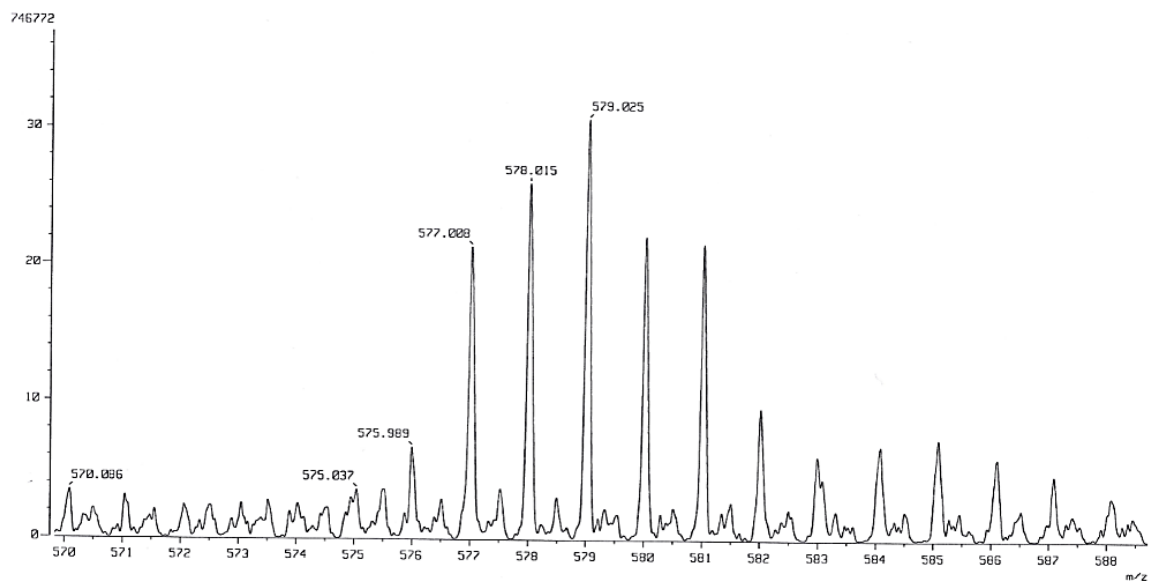


Figure S8. High resolution-FAB- mass spectrum of Compound L1Pt.

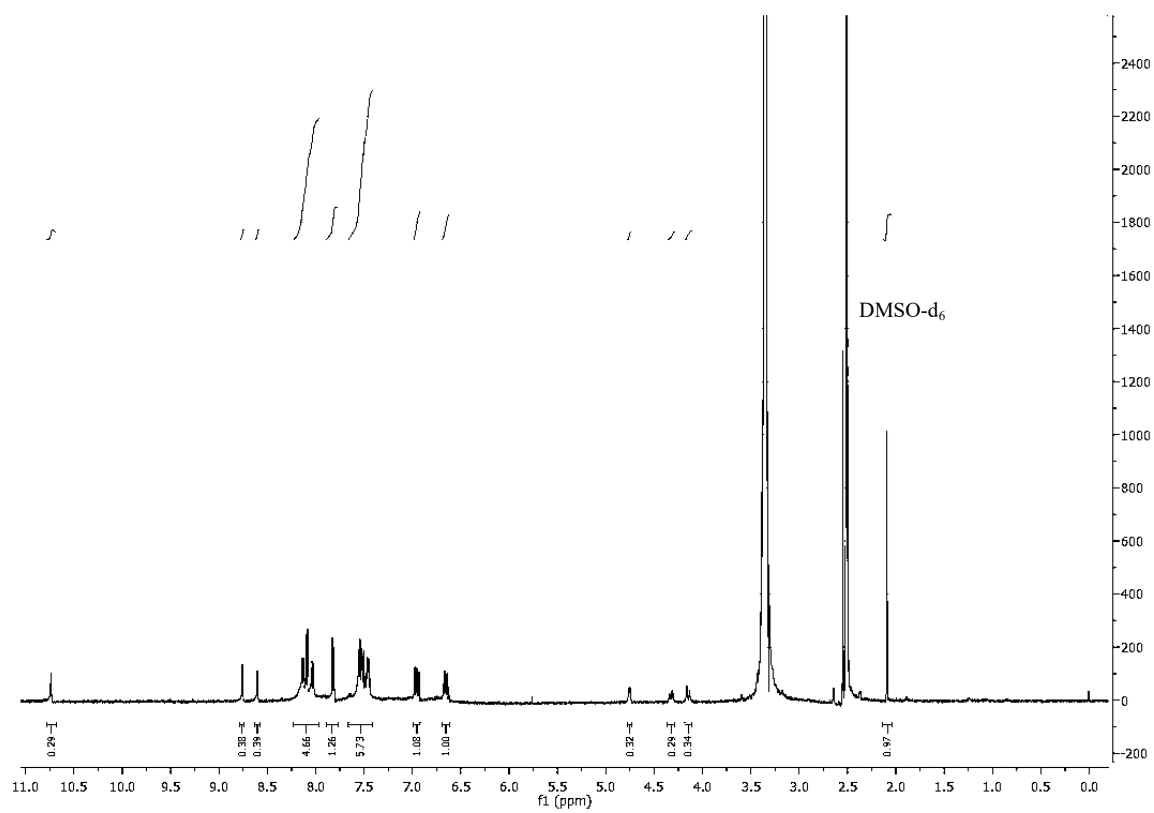


Figure S9. ^1H NMR spectrum of compound L2Pt.

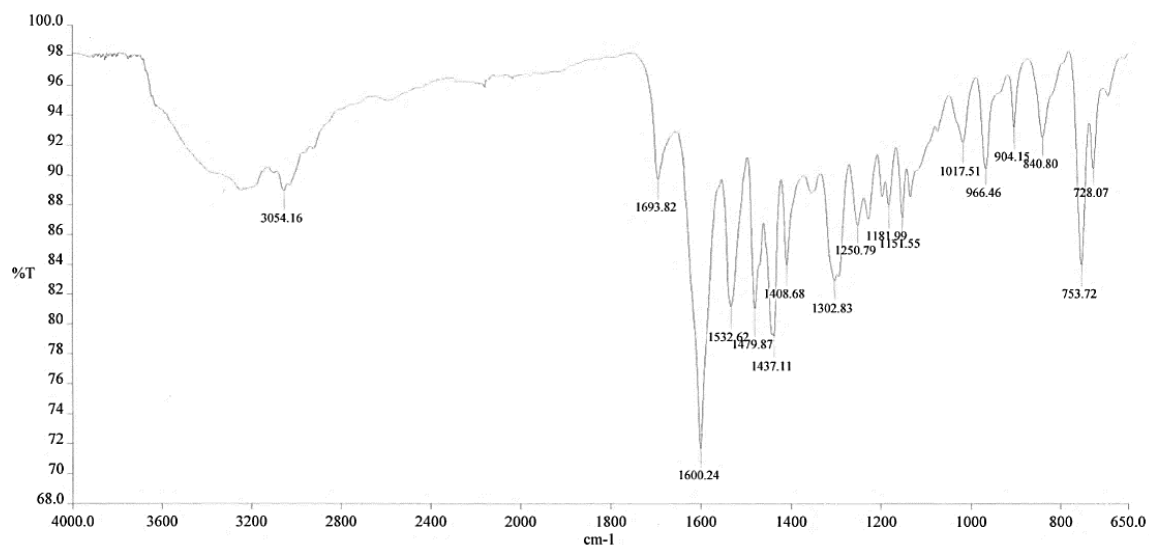


Figure S10. FTIR spectrum of compound **L2Pt**.

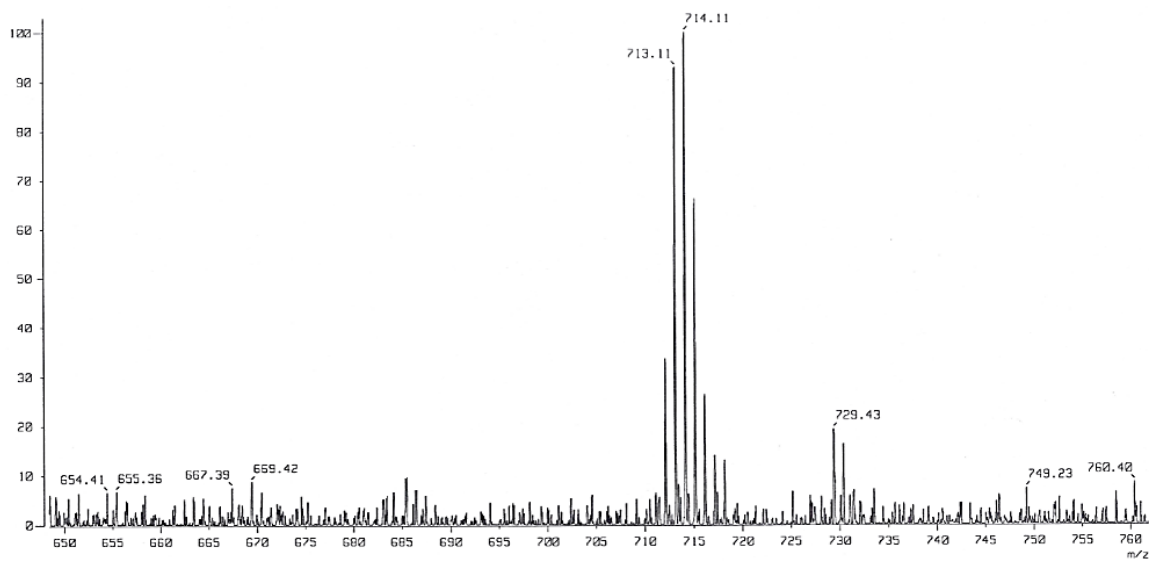


Figure S11. High resolution-FAB- mass spectrum of compound **L2Pt**.

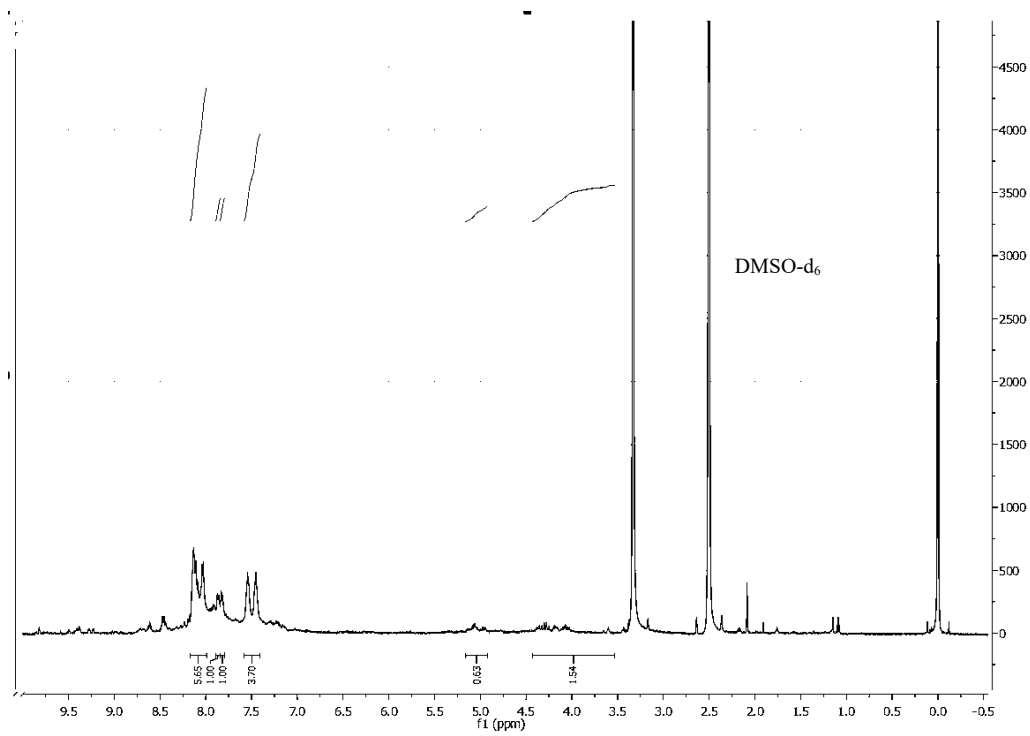


Figure S12. ¹H NMR spectrum of compound L3Pt.

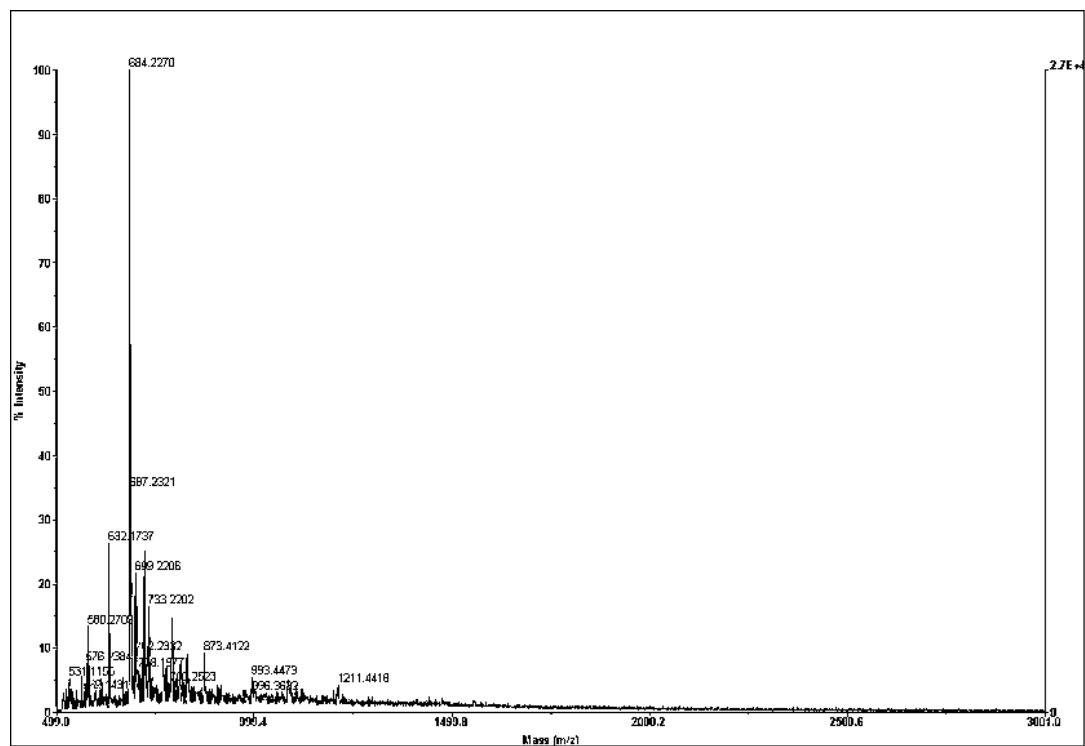


Figure S13. Maldi-tof mass spectrum of compound L3Pt.

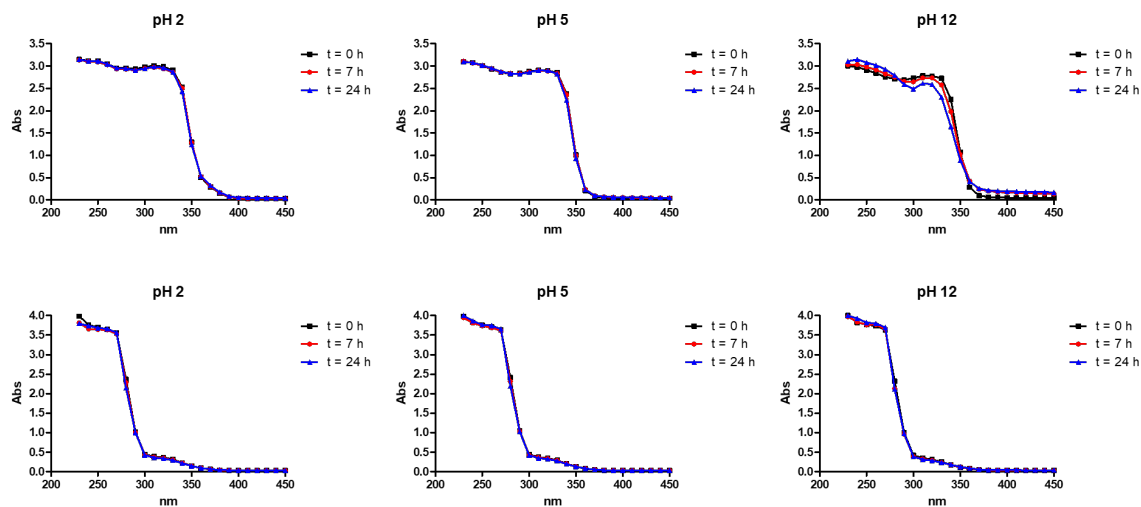


Figure S14. Time-dependent UV-Vis absorption spectra of compound **L1** (upper row) and **L1Pt** (lower row) in PBS solution recorded after $t=0$ h (black line), $t=7$ h (red line), and $t=24$ h (blue line) in different pH (e.g. strong acidic, weakly acidic, neutral, alkaline).

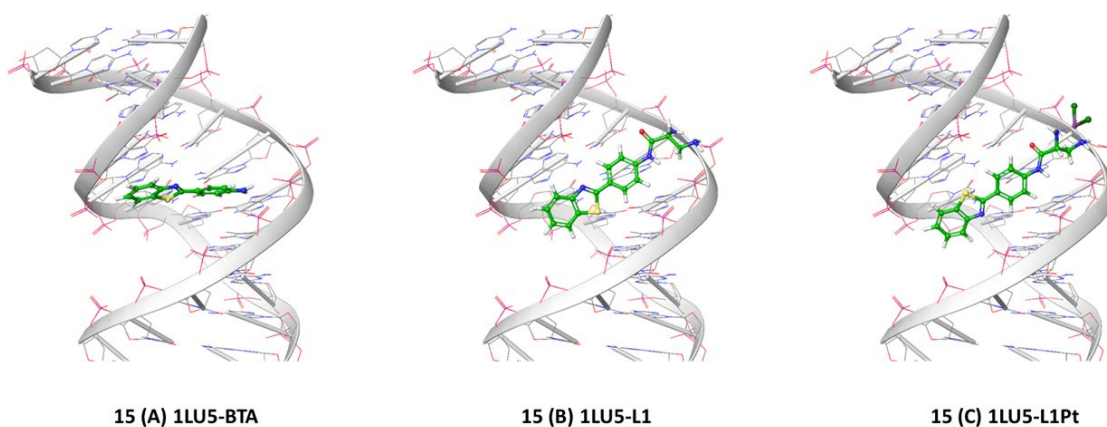


Figure S15. (A) Predicted binding pose of BTA on DNA (PDB ID: 1LU5). (B) Molecular docking simulation studies of the interaction between **L1** and DNA (PDB ID: 1LU5). (C) Molecular docking simulation studies of the interaction between **L1Pt** and DNA (PDB ID: 1LU5).

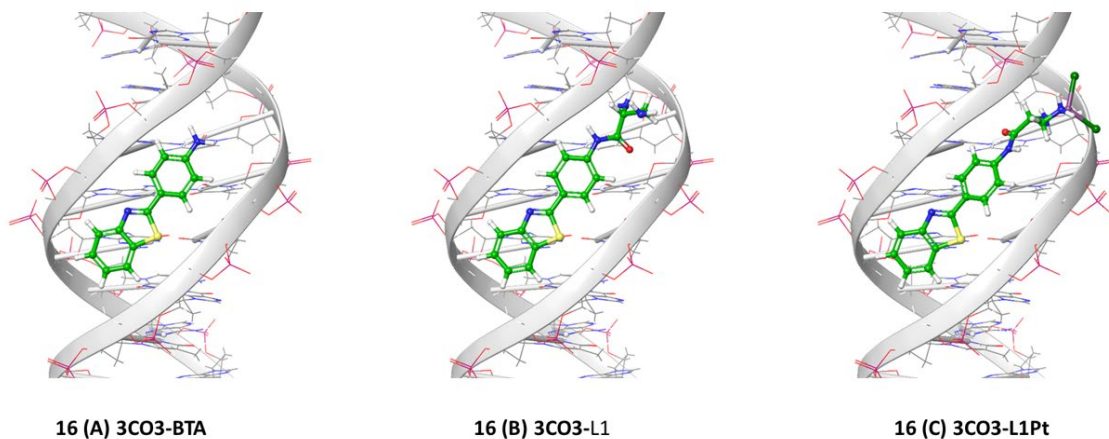


Figure S16. (A) Predicted binding pose of BTA on DNA (PDB ID: 3CO3). (B) Molecular docking simulation studies of the interaction between L1 and DNA (PDB ID: 3CO3). (C) Molecular docking simulation studies of the interaction between L1Pt and DNA (PDB ID: 3CO3).