

Supplementary Information for

Synthesis, spectroscopic characterization, crystal structure and DNA docking studies of a new *trans*-platinum saccharinate complex containing aqua and dimethyl sulfoxide ligands

Ceyda İÇSEL^{1*}

¹Department of Chemistry, Faculty of Science, Karadeniz Technical University, Trabzon, 61080, Türkiye.

E-mail: cydyilmaz@ktu.edu.tr

Table S1: Crystallographic data and structure refinement for *trans*-[Pt(sac)₂(H₂O)(DMSO)].

Empirical formula	C ₁₆ H ₁₆ N ₂ O ₈ PtS ₃
Formula weight	655.58
Crystal system	monoclinic
Space group	<i>P</i> 2 ₁ / <i>n</i>
<i>a</i> (Å)	11.561(5)
<i>b</i> (Å)	8.472(2)
<i>c</i> (Å)	22.025(7)
α (°)	90
β (°)	101.40(4)
γ (°)	90
<i>V</i> (Å ³)	2114.5(13)
<i>T</i> (K)	297(2)
<i>Z</i>	4
ρ_{calc} (g cm ⁻³)	2.059
μ (mm ⁻¹)	6.978
<i>F</i> (000)	1264
θ (°)	3.057- 25.393
Collected reflections	6473
Data/parameters	3640/185
Goodness-of-fit	0.803
<i>R</i> ₁ [<i>I</i> > 2 σ]	0.0747
<i>wR</i> ₂	0.1796
CCDC deposition number	2311770

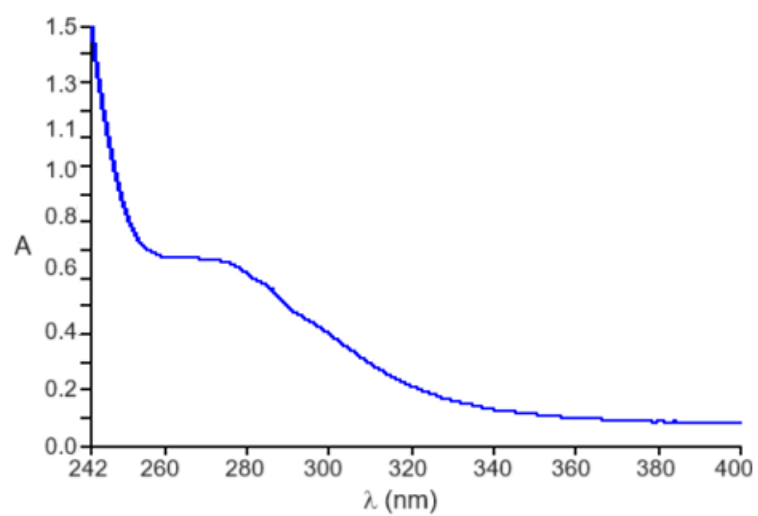


Figure S1: UV-Vis spectrum of *trans*-[Pt(sac)₂(H₂O)(DMSO)] (10⁻⁴ M) in MeOH.

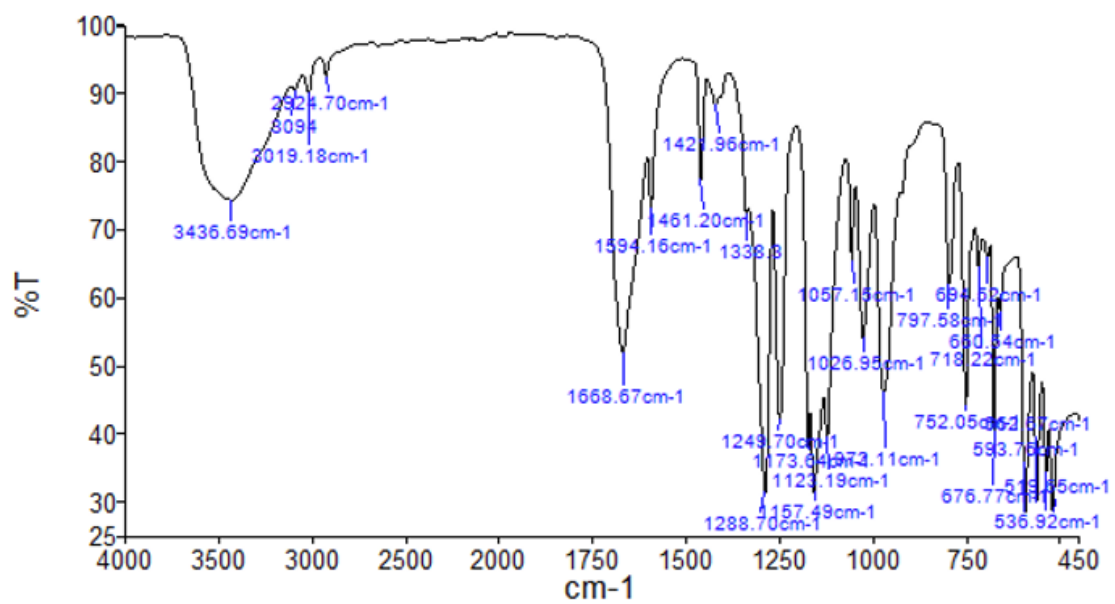


Figure S2: FTIR spectrum of *trans*-[Pt(sac)₂(H₂O)(DMSO)].

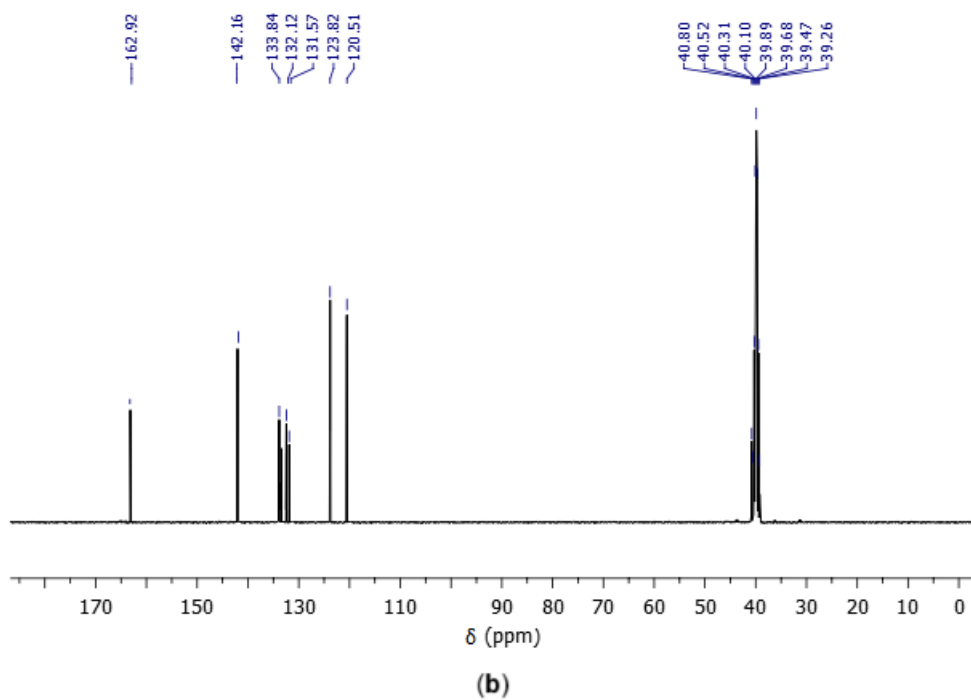
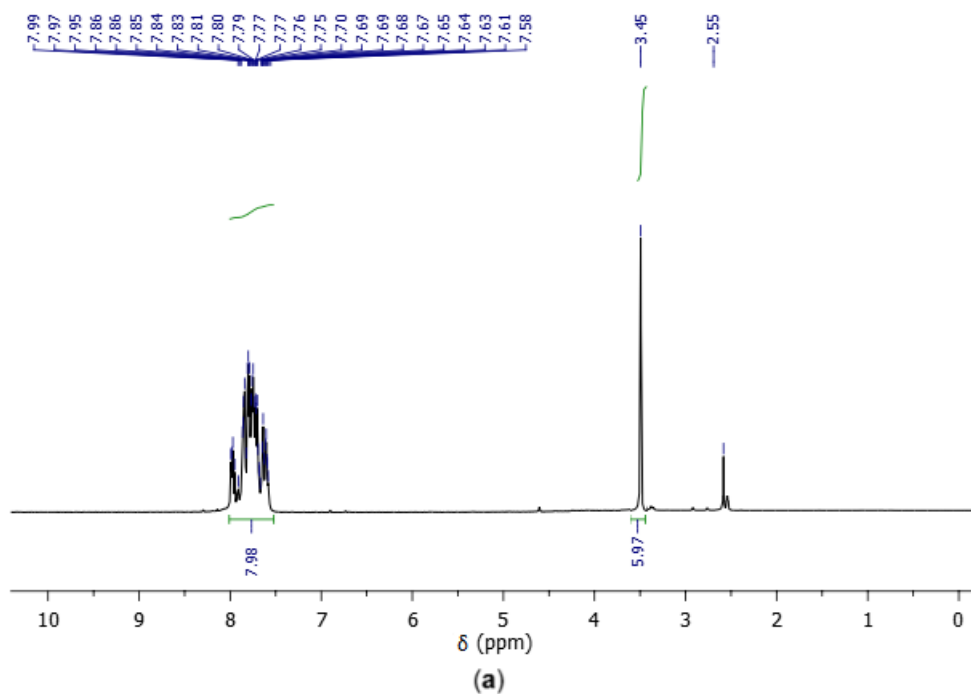


Figure S3: ^1H (a) and ^{13}C NMR spectra (b) of *trans*-[Pt(sac) $_2$ (H $_2$ O)(DMSO)].