Supplementary data for article:

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Supporting Information for

Synthesis and evaluation of series of diazine-bridged dinuclear platinum(II) complexes through *in vitro* toxicity and molecular modeling: Correlation between structure and activity of Pt(II) complexes

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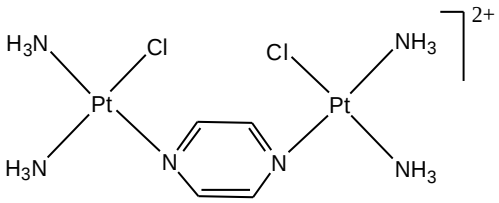
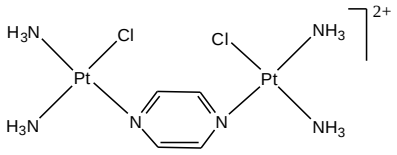
Contents:

^{1}H NMR (200 MHz, D_2O)

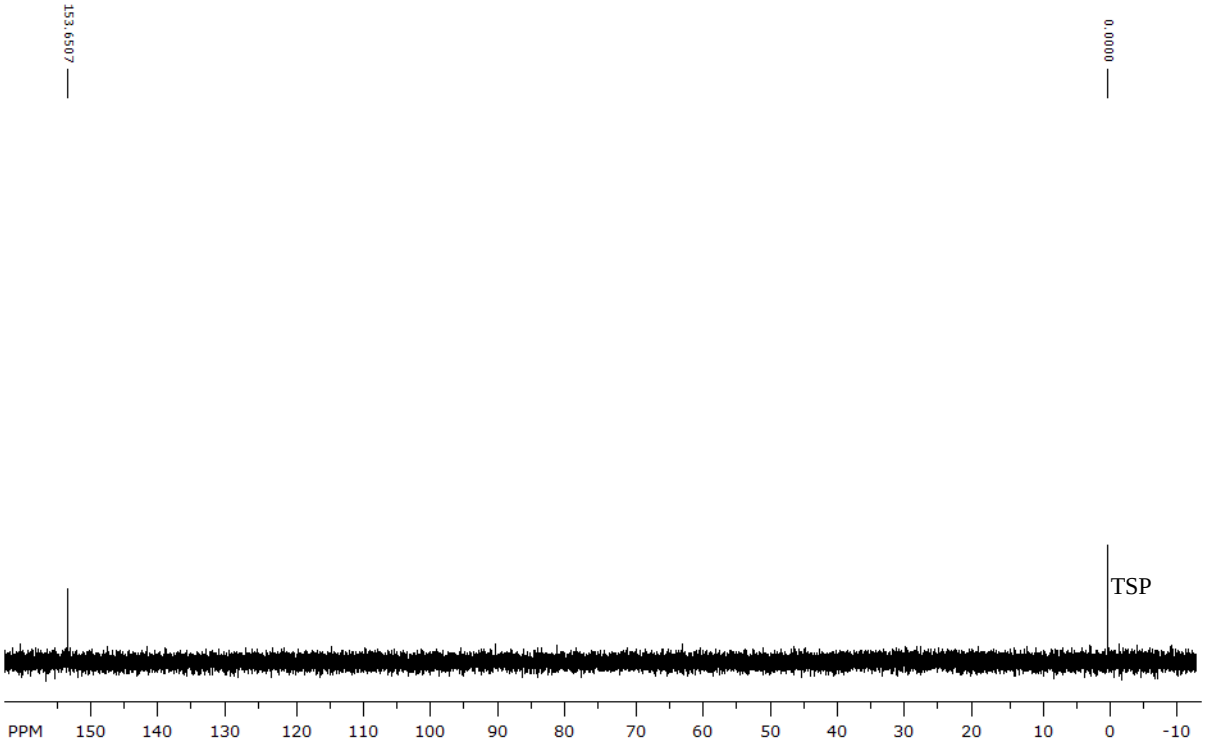


{[*cis*-$PtCl(NH_3)_2]_2(\mu$-pz)$\}^{2+}$

^{13}C NMR (50 MHz, D_2O)



{[*cis*-PtCl(NH_3)$_2$]$_2$(μ-pz)}$^{2+}$



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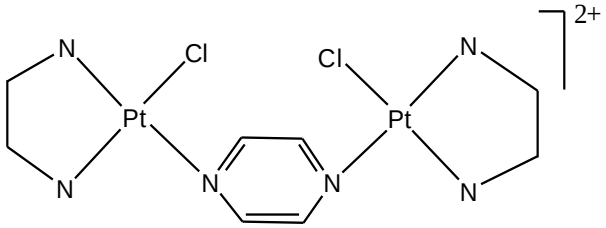
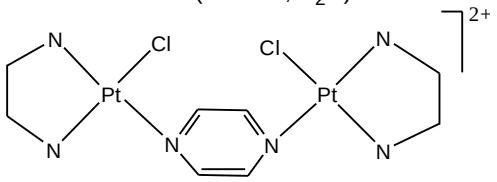
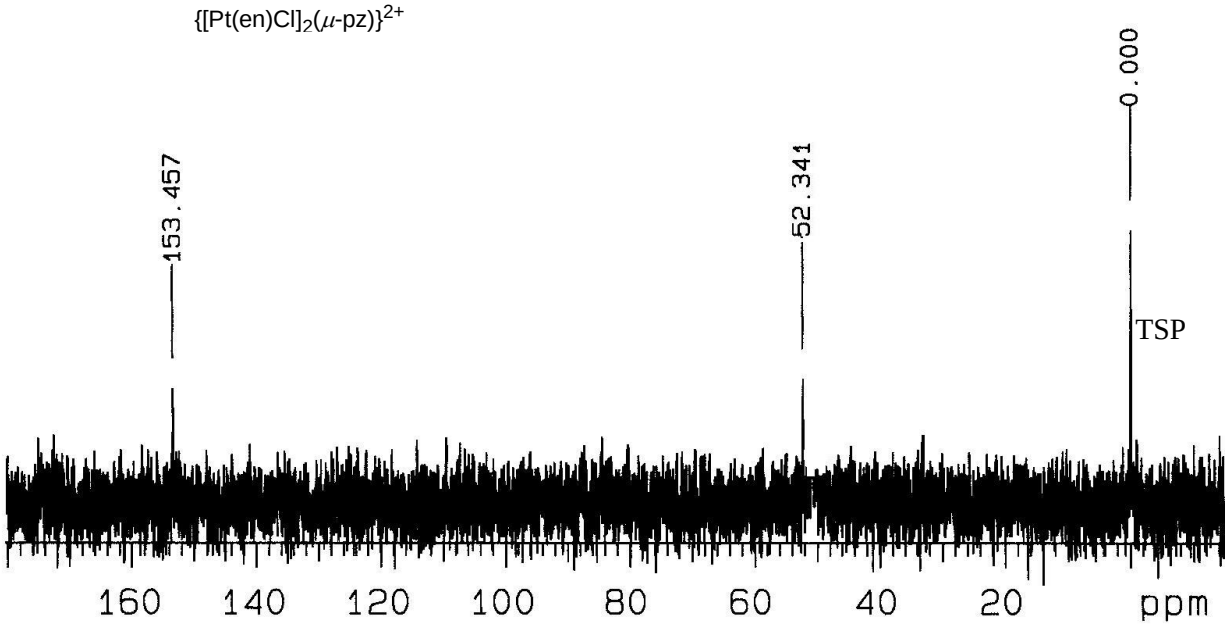


{[Pt(en)Cl]$_2$(μ-pz)}$^{2+}$

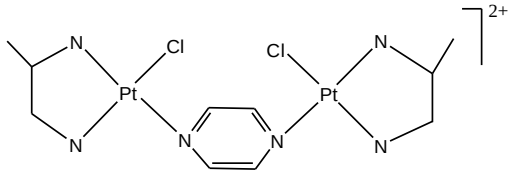
^{13}C NMR (50 MHz, D_2O)



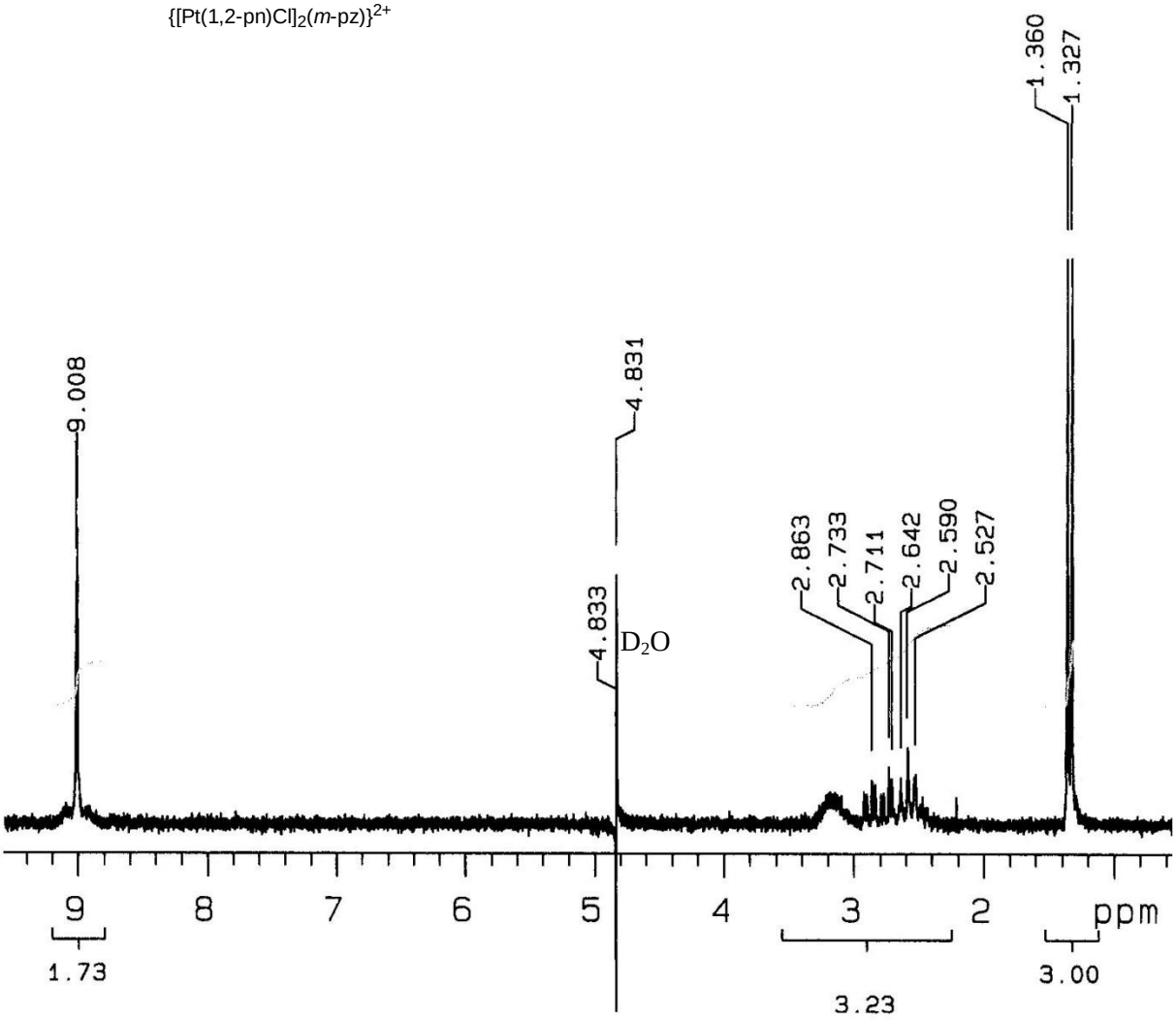
{[Pt(en)Cl]$_2$(μ-pz)}$^{2+}$



^{1}H NMR (200 MHz, D_2O)



{[Pt(1,2-pn)Cl]$_2$(*m*-pz)}$^{2+}$



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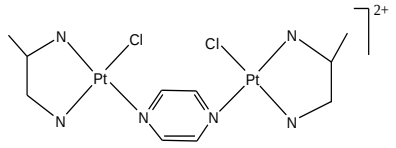
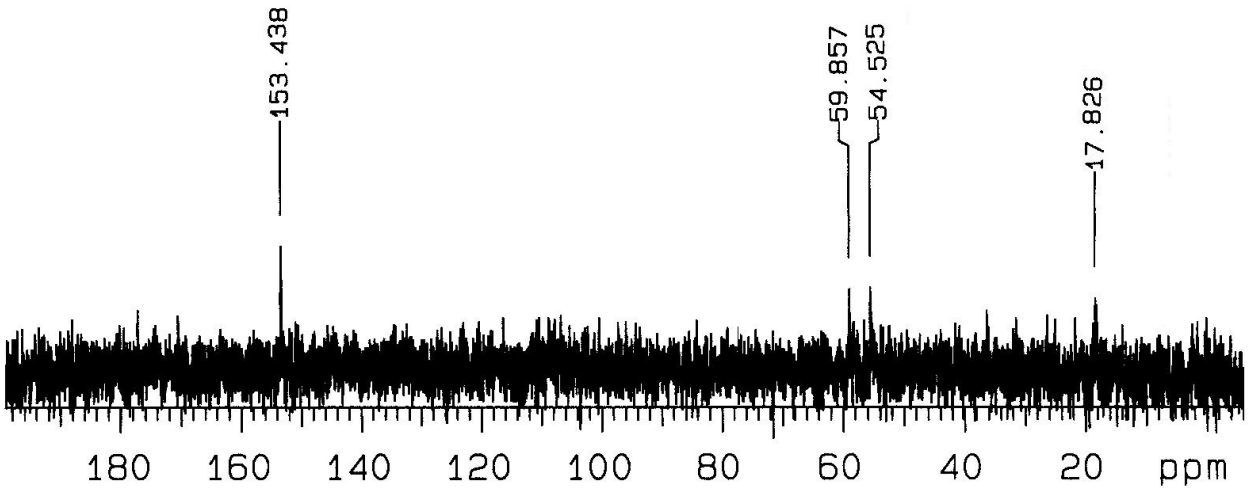
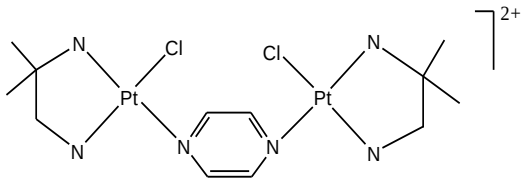


{[Pt(1,2-pn)Cl]$_2$(*m*-pz)}$^{2+}$

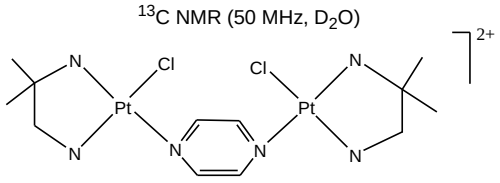


^{1}H NMR (200 MHz, D_2O)

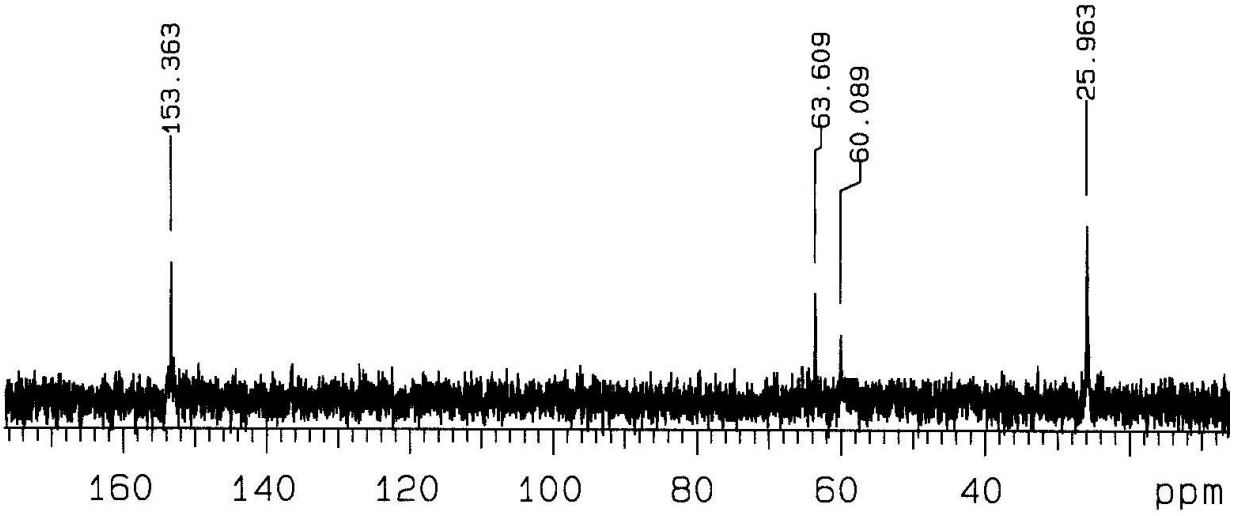


{[Pt(ibn)Cl]$_2$(μ-pz)}$^{2+}$

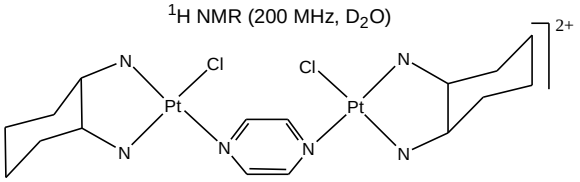
^{13}C NMR (50 MHz, D_2O)



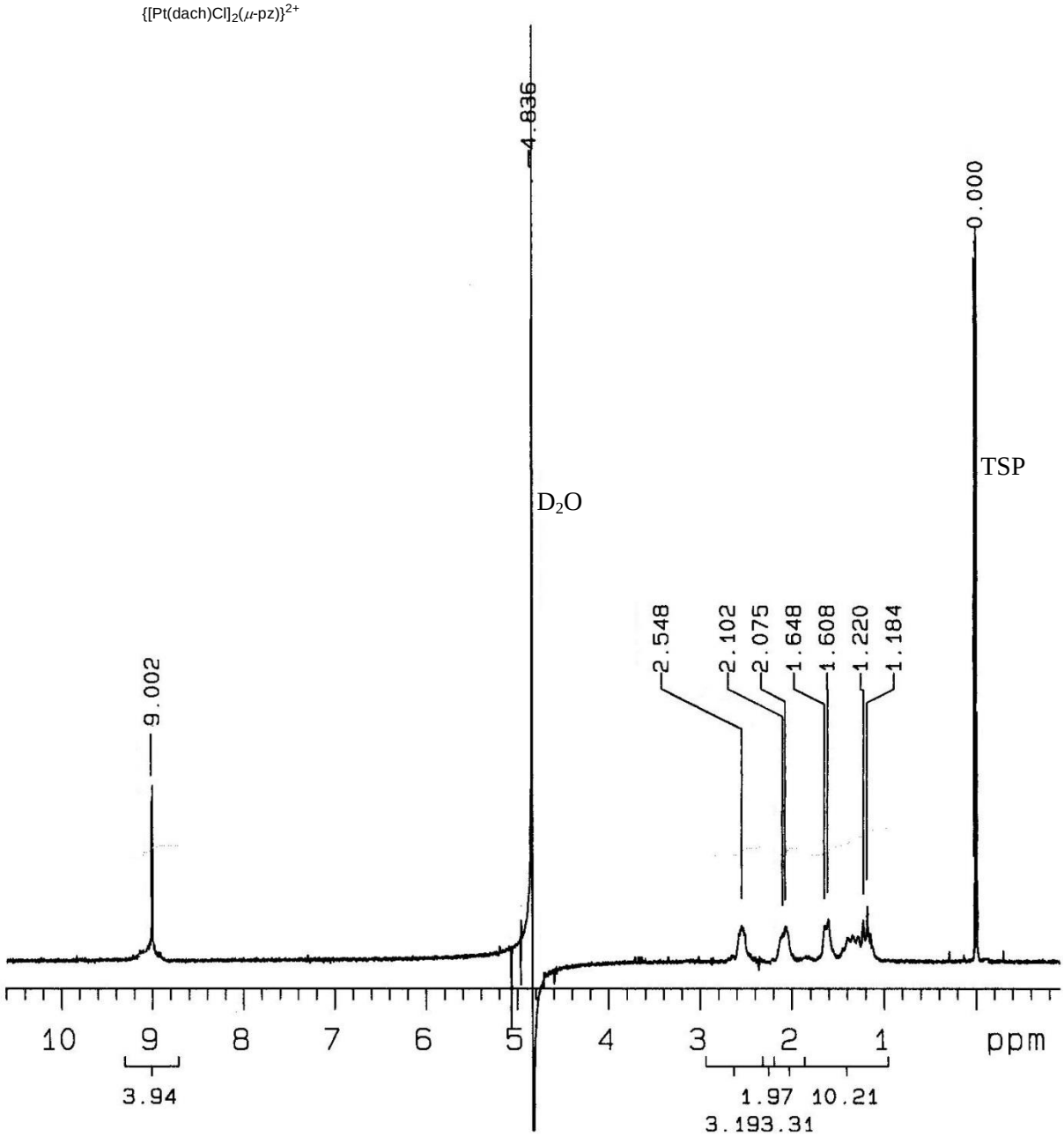
{[Pt(ibn)Cl]$_2$(μ-pz)}$^{2+}$



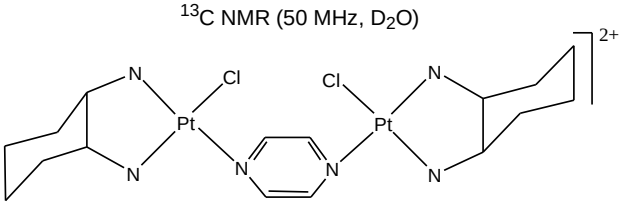
^{1}H NMR (200 MHz, D_2O)



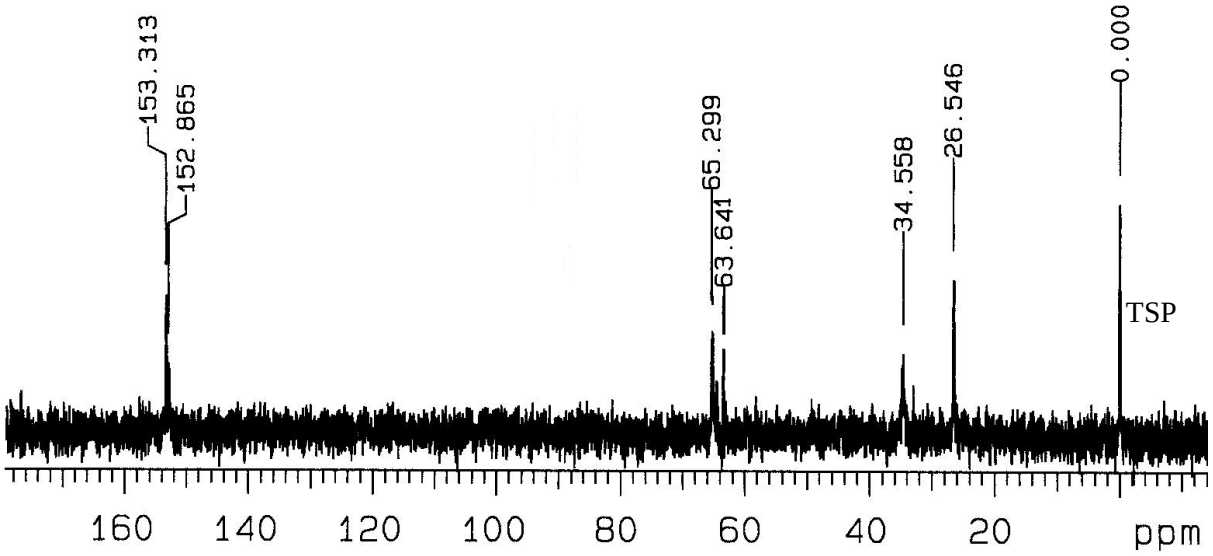
{[Pt(dach)Cl]$_2$(μ-pz)}$^{2+}$



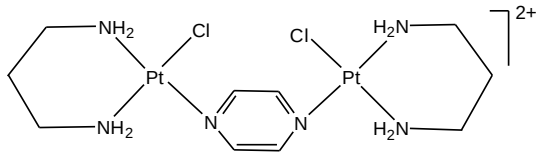
^{13}C NMR (50 MHz, D_2O)



{[Pt(dach)Cl]$_2$(μ-pz)}$^{2+}$

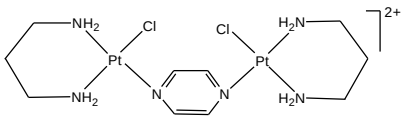


^{1}H NMR (200 MHz, D_2O)

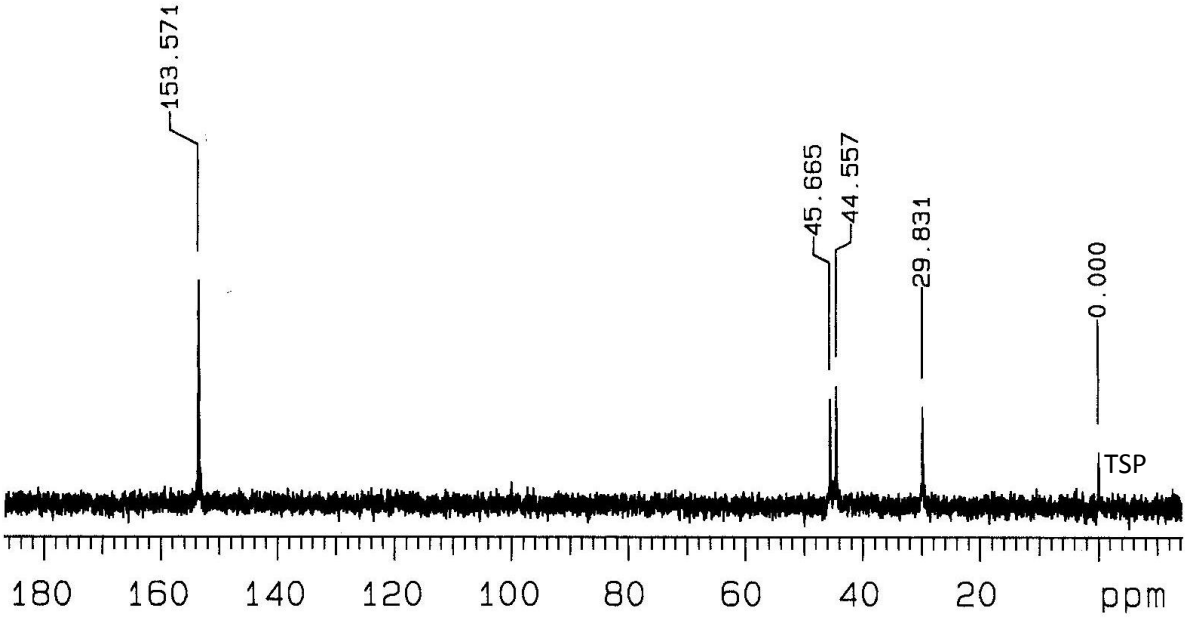


{[Pt(1,3-pd)Cl]$_2$(μ-pz)}$^{2+}$

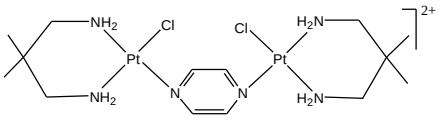
^{13}C NMR (50 MHz, D_2O)



{[Pt(1,3-pd)Cl]$_2$(μ-pz)}$^{2+}$

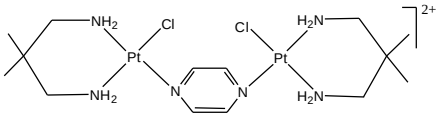


^{1}H NMR (200 MHz, D_2O)

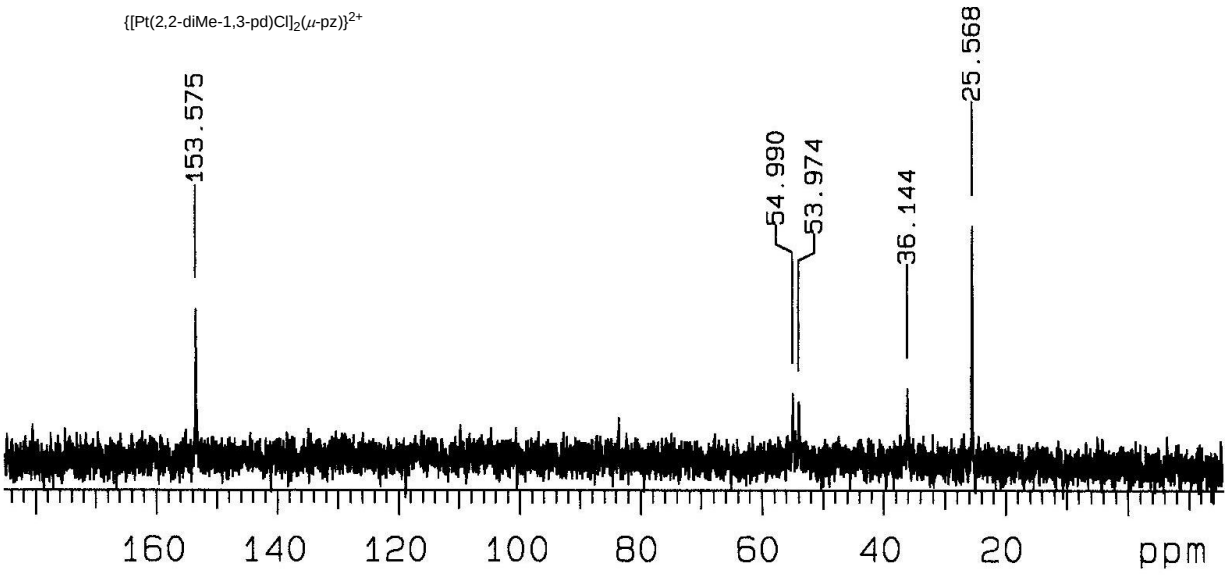


{[Pt(2,2-diMe-1,3-pd)Cl]$_2$(μ-pz)}$^{2+}$

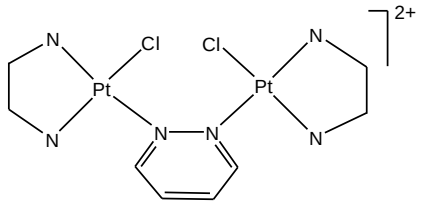
^{13}C NMR (50 MHz, D_2O)



{[Pt(2,2-diMe-1,3-pd)Cl]$_2$(μ-pz)}$^{2+}$

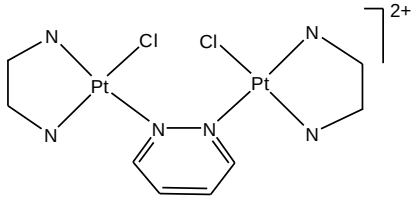


^{1}H NMR (200 MHz, D_2O)



{[Pt(en)(H_2O)]$_2$(μ-pydz)}$^{4+}$

^{13}C NMR (50 MHz, D_2O)



{[Pt(en)(H_2O)]$_2$(μ-pydz)}$^{4+}$

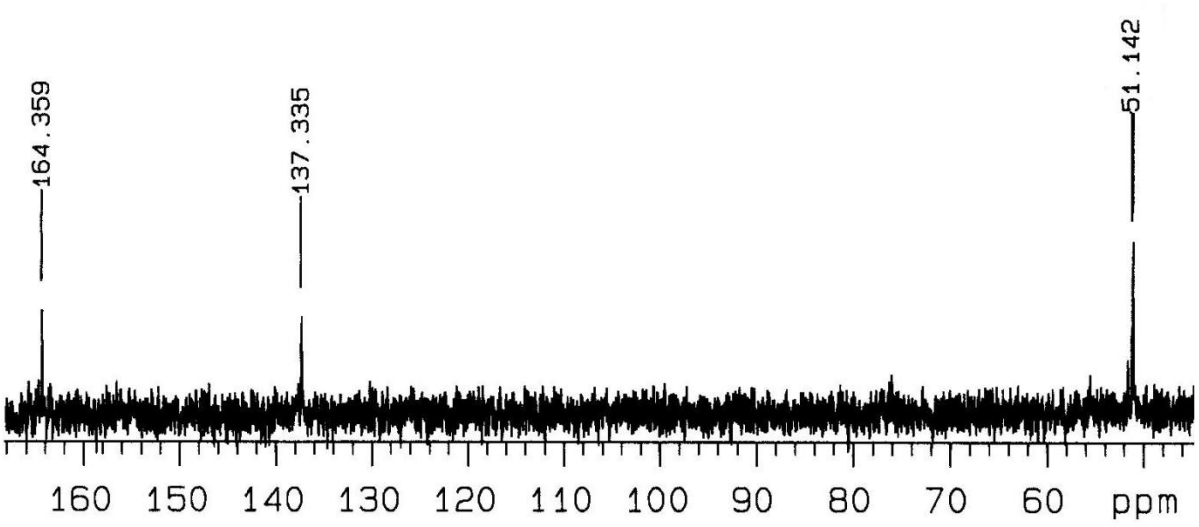


Table S1. Lethal and teratogenic effects observed in zebrafish (*Danieo rerio*) embryos at different hours post fertilization (hpf).

Category	Developmental endpoints	Exposure time			
		24 h	48 h	72 h	96 h
Lethal effect	Egg coagulation[a]	•	•	•	•
	Tail not detached	•	•	•	•
	No somite formation	•	•	•	•
	No heart-beat		•	•	•
Teratogenic effect	Malformation of head	•	•	•	•
	Malformation of eyes[b]	•	•	•	•
	Malformation of sacculi/otoliths[c]	•	•	•	•
	Malformation of chorda	•	•	•	•
	Malformation of tail[d]	•	•	•	•
	Scoliosis	•	•	•	•
	Yolk deformation	•	•	•	•
	Growth retardation[e]	•	•	•	•

[a] No clear organs structure are recognized

[b] Malformation of eyes was recorded for the retardation in eye development and abnormality in shape and size.

[c] Presence of no, one or more than two otoliths per sacculus, as well as reduction and enlargement of otoliths and/or sacculi (otic vesicles).

[d] Tail malformation was recorded when the tail was bent, twisted or shorter than to control embryos as assessed by optical comparation.

[e] Growth retardation was recorded by comparing with the control embryos in development or size (before hatching, at 24 hpf and 48 hpf) or in a body length (after hatching, at and onwards 72 hpf).