Supplementary Materials: Synthesis and Characterization of Novel Cu(II), Pd(II) and Pt(II) Complexes with 8-Ethyl-2-hydroxytricyclo(7.3.1.0^{2,7})tridecan-13-one-thiosemicarbazone Antimicrobial and *In vitro* Antiproliferative Activity

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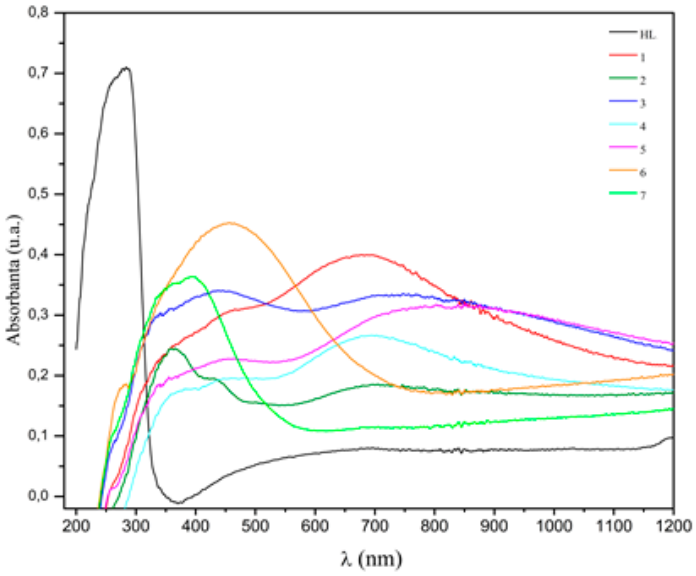
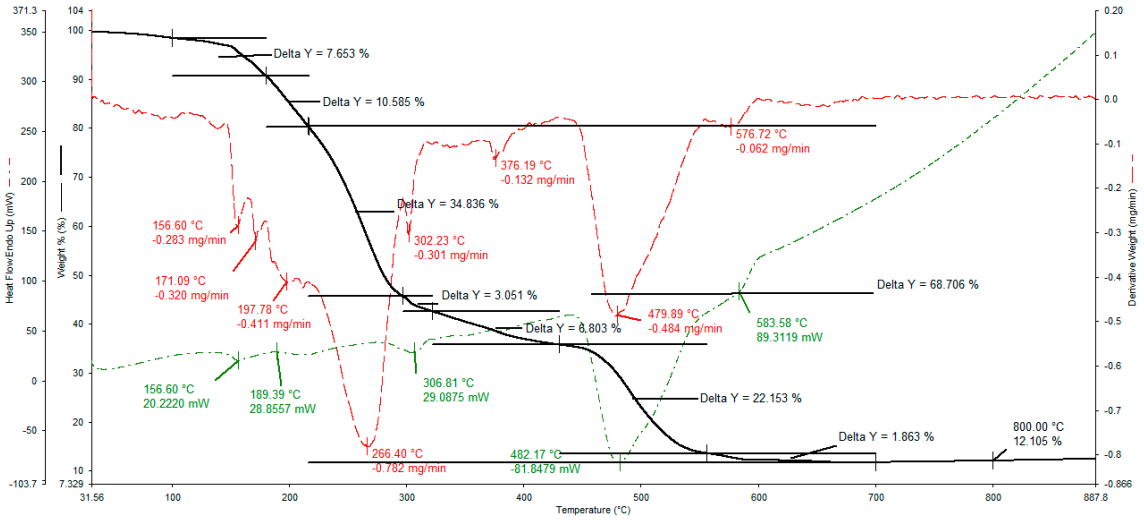
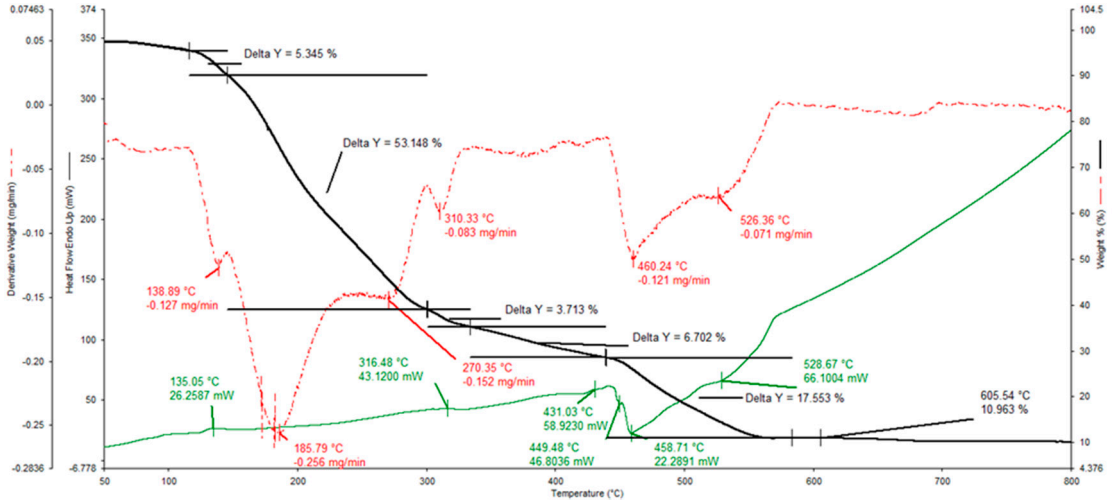


Figure S1. Electronic spectra of complexes **1–7**.

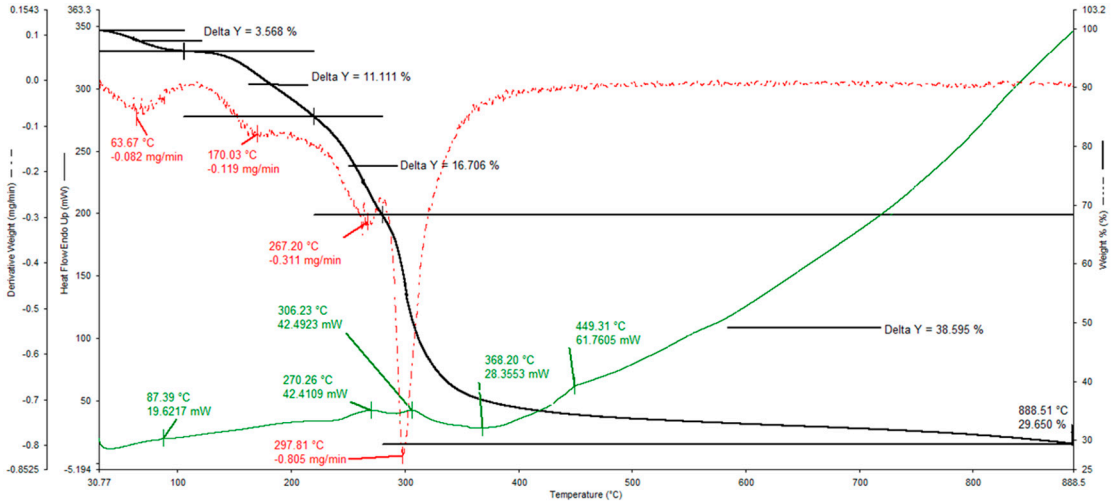


(a)

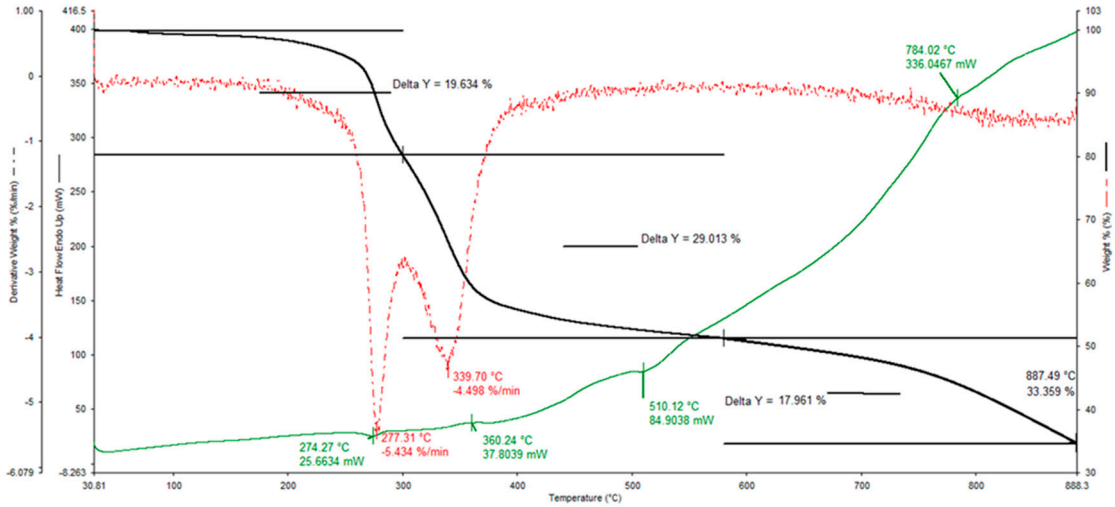
Figure S2. *Cont.*



(**b**)



(**c**)



(**d**)

Figure S2. Thermogravimetric analysis of complexes (**a**) **1**, (**b**) **5**, (**c**) **6** and (**d**) **7**.

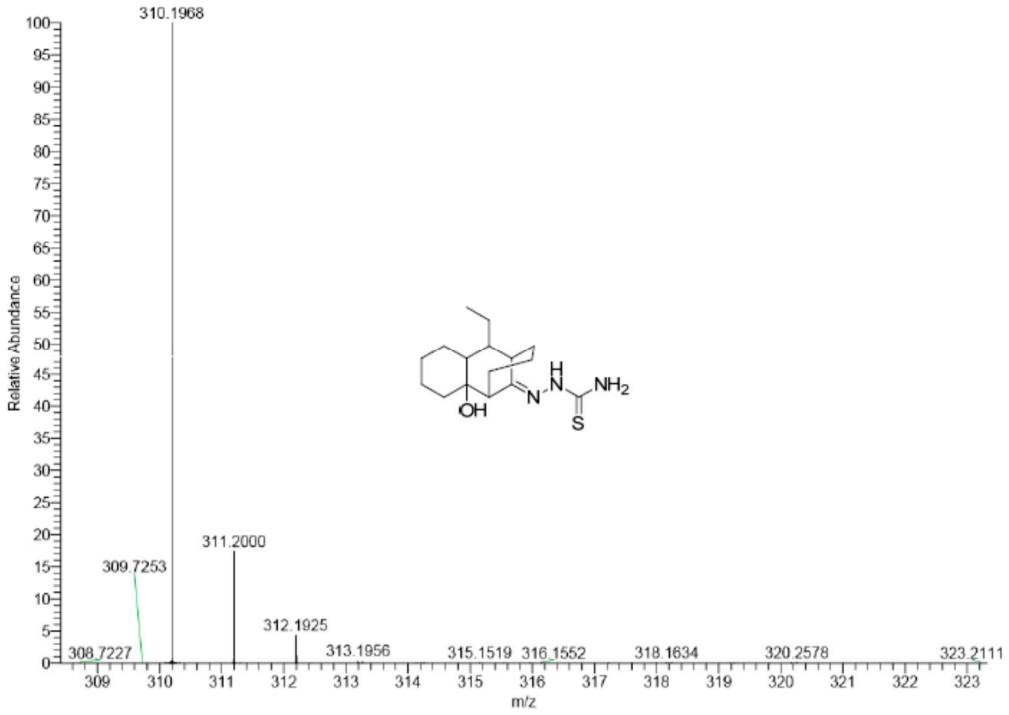
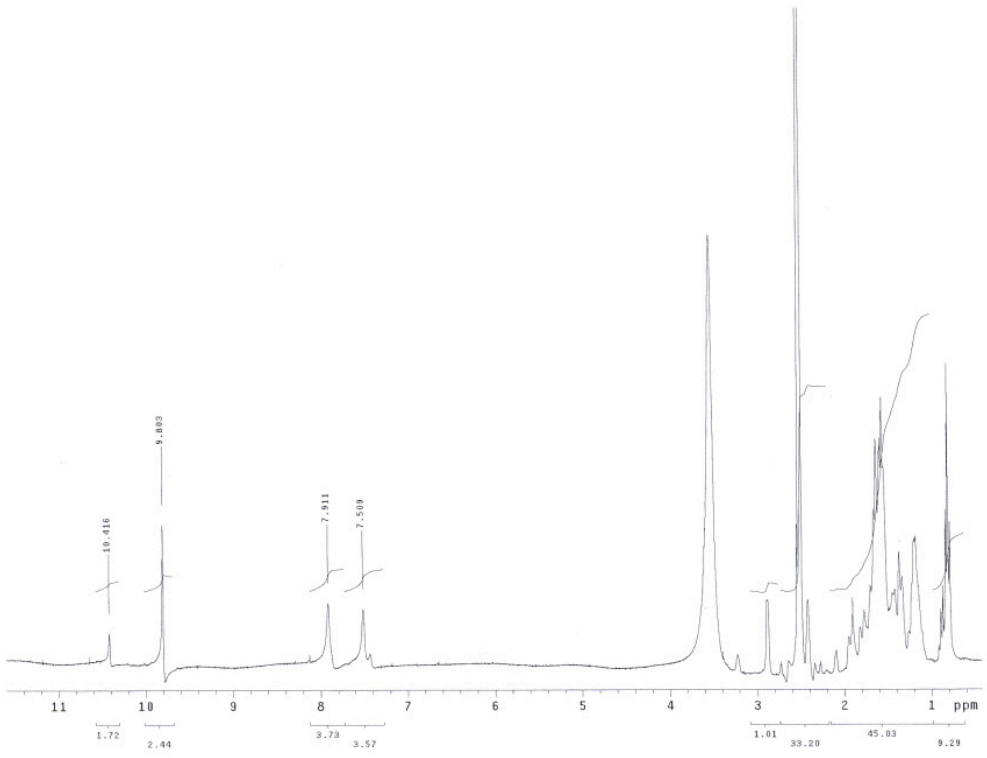
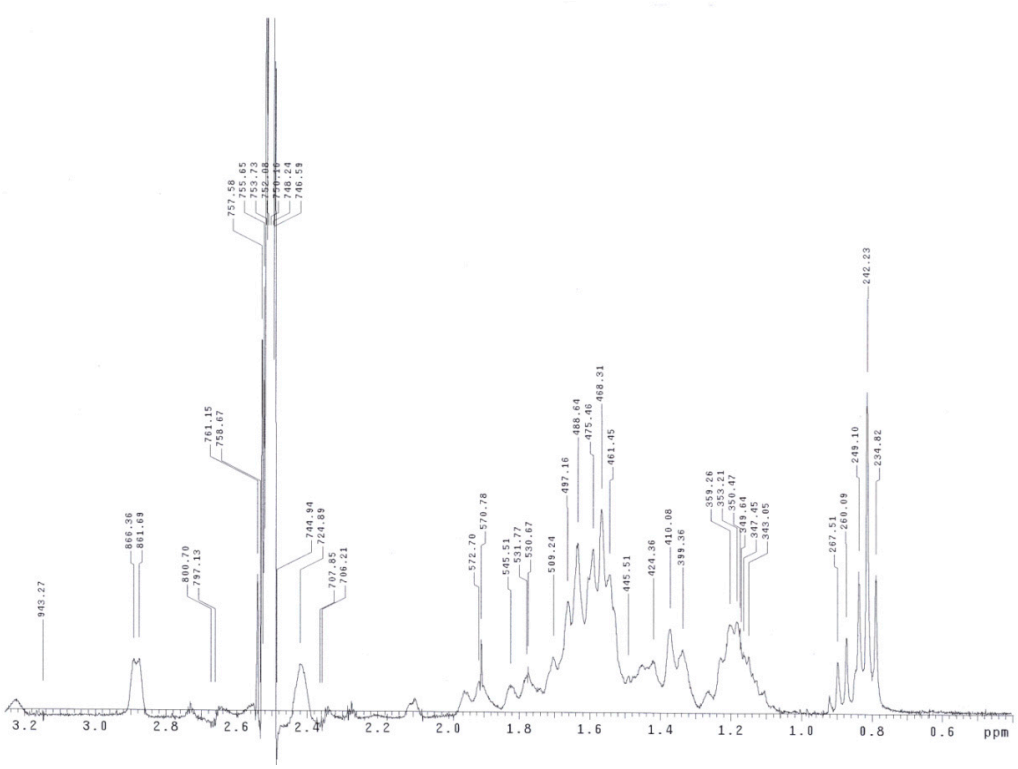


Figure S3. The mass spectrum of ligand **HL**.

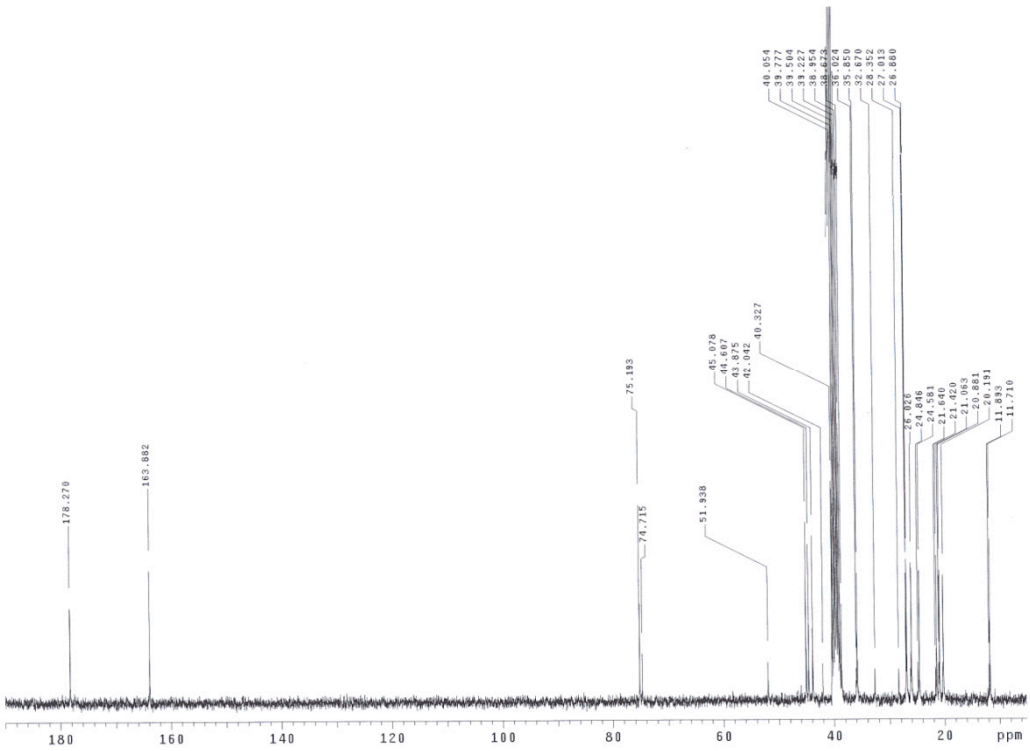


(a)

Figure S4. *Cont.*



(**b**)



(**c**)

Figure S4. The spectra ^{1}H-NMR (**a**,**b**) and ^{13}C-NMR (**c**) of ligand (**HL**).

Table S1. FAB mass spectral data of complexes **1**–**7**.

Molecular Formula	Mw (g/mol)	Molecular Ion Peak $[M]^+$	The Peaks Due to Complex Fragmentation			
$(Cu(L)(H_2O)_2(OAc))$ (**1**)	466.5	372.5	201.1	216.1	259.1	292.1
$(Cu(HL)(H_2O)_2(SO_4))$ (**2**)	505.5	374.2	201.1	219.1	259.1	275.1
$(Cu(L)(H_2O)_2(NO_3))$ (**3**)	469.5	371.5	188.1	219.1	254.2	292.2
$(Cu(L)(H_2O)_2(ClO_4))$ (**4**)	507	372.5	202.3	217.0	253.2	293.1
$(Cu(L)_2(H_2O)_2)$ (**5**)	715.5	681.3	340.2	404.1	473.3	593.1
$(Pd(L)(OAc))(H_2O)$ (**6**)	491.4	474.5	281.1	341.2	370.1	416.2
（$Pt(L)_2$） (**7**)	811	794.1	501.1	587.1	616.2	705.1

Table S2. The numerical values of the Alamar blue analysis (with standard deviation).

Compound	HL	1	2	3	4	5	6	7
A375								
Viability %	99.819	81.482	35.676	47.108	69.523	76.913	89.080	96.075
*	2.315	2.350	11.009	3.001	7.861	2.260	5.913	4.492
MCF-7								
Viability %	71.421	17.292	10.025	12.847	12.698	36.891	74.421	69.267
*	5.553	0.270	0.141	0.515	1.604	0.425	3.421	1.063
SKBR-3								
Viability %	75.130	80.582	72.626	94.081	67.155	92.974	90.713	90.896
*	13.479	1.277	5.419	7.123	5.163	8.702	11.107	4.803
NCI-H1573								
Viability %	87.63	29.61	31.33	43.35	26.42	58.55	38.85	83.54
*	4.72	2.76	2.70	4.72	2.88	3.18	1.75	4.35

*standard deviation. The values are presented as percent of control (100% viability).