Table S1. Selected geometric parameters of the complex molecule [Å, °]	
bond lengths	
Pt(1)-N(3)	2.064(5)
Pt(1)-Cl(1)	2.298(1)
C(11)-C(2)	1.479(8)
C(2)-C(3)	1.355(8)
C(2)-O(1)	1.366(7)
C(3)-N(3)	1.443(7)
C(3)-C(4)	1.451(8)
C(4)-O(4)	1.231(7)
C(4)-C(10)	1.460(8)
C(9)-O(1)	1.374(7)
valence angles	
N(3) -Pt(1)-N(3)$^{\#}$	180.0
N(3)-Pt(1)-Cl(1)	92.7(1)
Cl(1)-Pt(1)-Cl(1)$^{\#}$	180.0
C(3)-C(2)-O(1)	121.4(5)
C(3)-C(2)-C(11)	127.3(5)
O(1)-C(2)-C(11)	111.2(5)
C(2)-C(3)-N(3)	122.0(5)
C(2)-C(3)-C(4)	122.2(5)
N(3)-C(3)-C(4)	115.7(5)
O(4)-C(4)-C(3)	122.1(5)
O(4)-C(4)-C(10)	123.0(5)
C(3)-C(4)-C(10)	114.8(5)
C(9)-C(10)-C(4)	119.6(5)
O(1)-C(9)-C(10)	121.9(5)
C(3)-N(3)-Pt(1)	121.7(4)
C(2)-O(1)-C(9)	120.0(4)
torsion angles	
C(12)-C(11)-C(2)-C(3)	-56.5(8)
O(1)-C(2)-C(3)-N(3)	174.3(5)
O(4)-C(4)-C(3)-N(3)	1.1(8)
C(2)-C(3)-N(3)-Pt(1)	88.0(6)
C(4)-C(3)-N(3)-Pt(1)	-95.8(5)
C(3)- N(3)- Pt(1)-Cl(1)	27.3(4)
Symmetry transformation code for equivalent atoms: $^{\#}$ -x,-y+1,-z+1	

Table S2. Hydrogen bonding geometry [Å, °]

Scheme of hydrogen bond D-H…A	d $_{(D-H)}$ [Å]	d $_{(H...A)}$ [Å]	d $_{(D...A)}$ [Å]	$<_{(D-H...A)}$ [°]
N(3)-H(3A)…O(4)^{i}	0.92	2.00	2.868(6)	155.7
C(15)-H(15)…O(4)^{ii}	0.95	2.52	3.358(7)	159.8
C(7)-H(7)…Cl(1)^{iii}	0.95	2.88	3.604(7)	133.4
Symmetry transformation codes: *i*: -x+1,-y+1,-z+1; *ii* : x-1,y+1,z; *iii* : –x+1,-y+1,-z				

a b

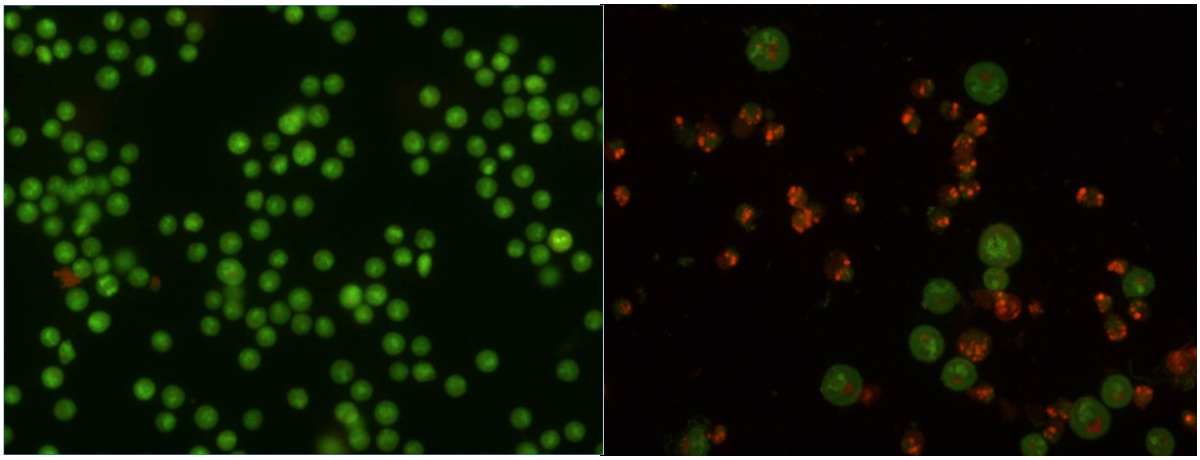

Fig. S2 Examples of morphological appearance of apoptotic cells (b) and control cells (a) in L1210 cells teated with TCAP, stained with acridine orange and ethidium bromide.

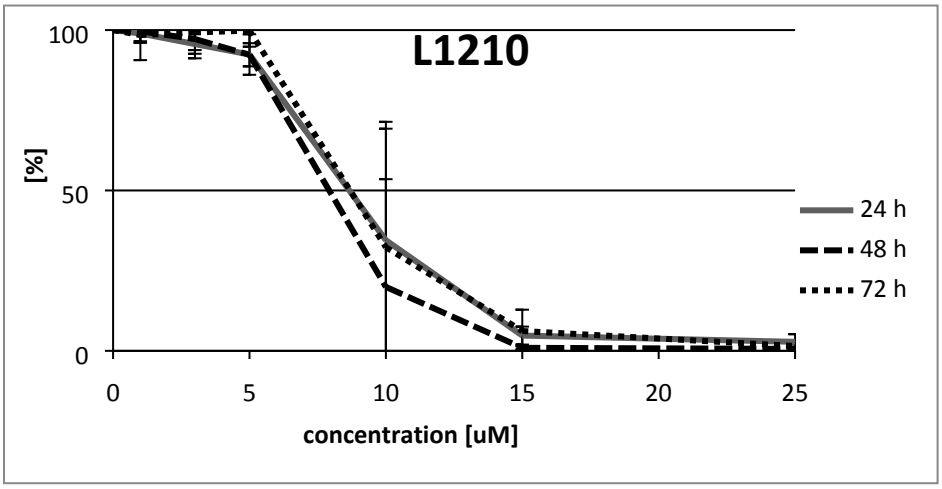

Fig. S1 Decrease the viability of L1210 cells treated with TCAP after 24, 48 and 72h.

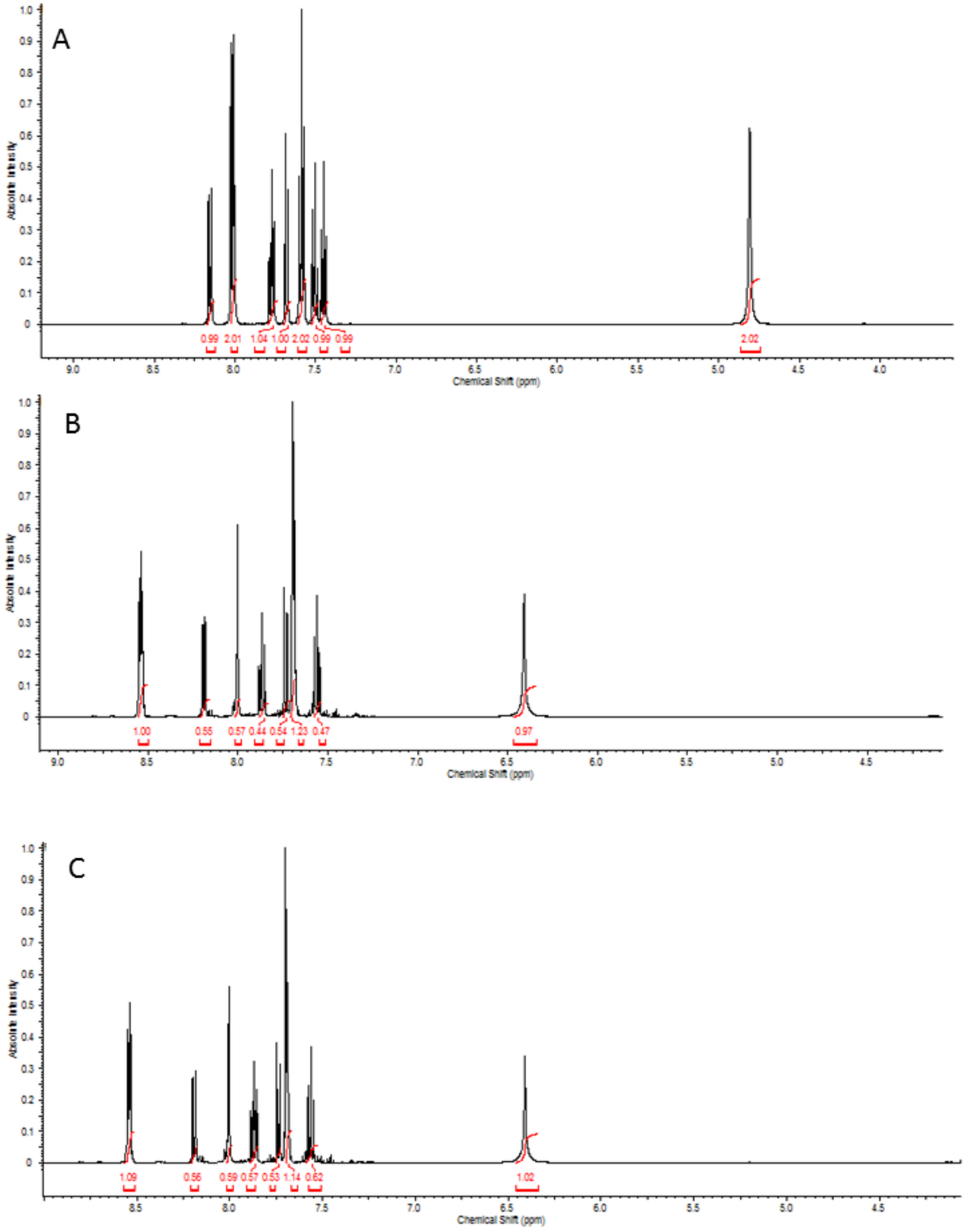

Fig.S3 ^{1}H NMR spectra (DMF-d7): **A**-3-aminoflavone; **B**-*trans*-Pt(3-af)$_2$Cl$_2$; **C**- *trans*-Pt(3-af)$_2$Cl$_2$ (after 24 h)

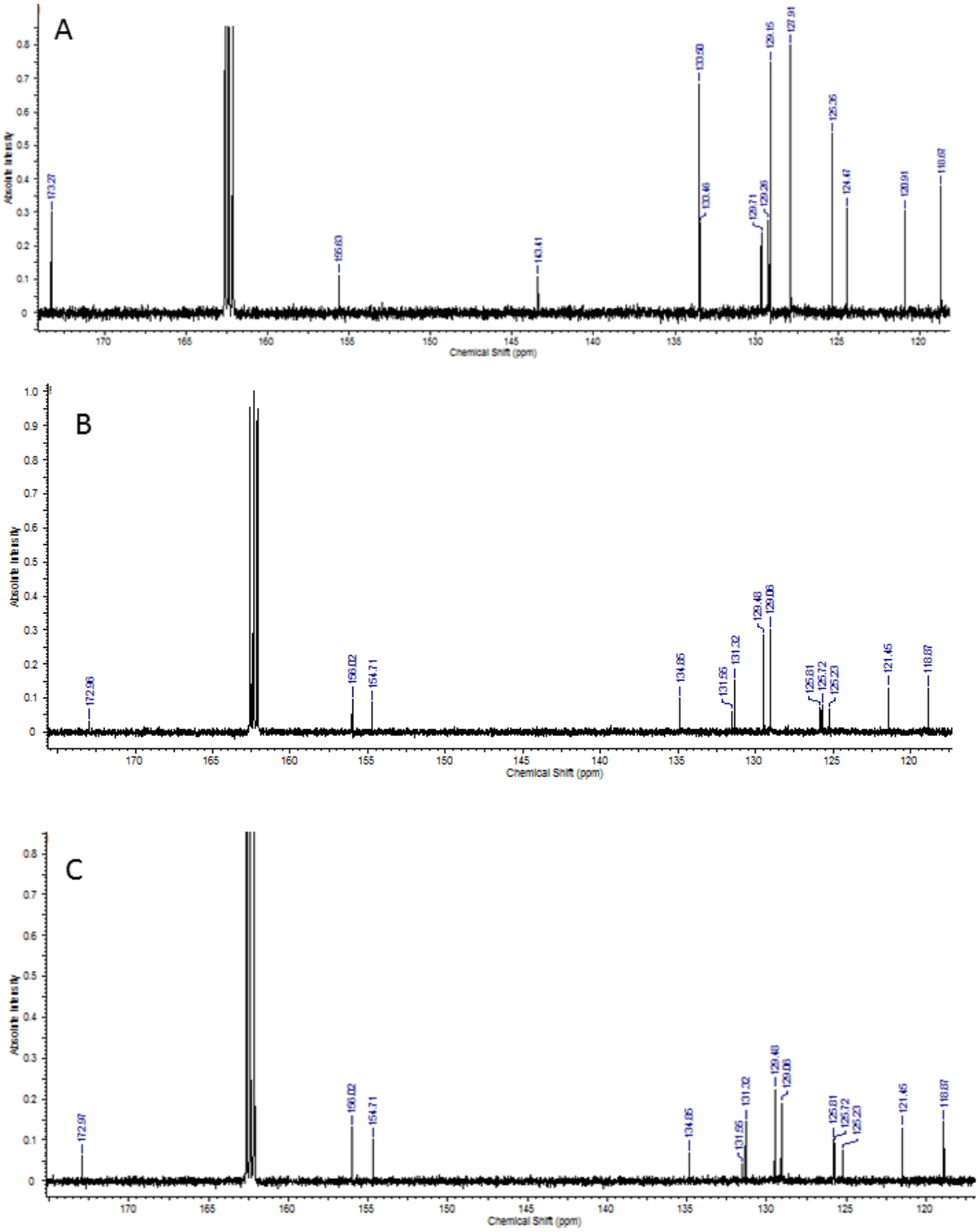

Fig.S4 ^{13}C NMR spectra (DMF-d7): **A**-3-aminoflavone; **B**-*trans*-Pt(3-af)$_2$Cl$_2$; **C**- *trans*-Pt(3-af)$_2$Cl$_2$ (after 24 h)