

Supplementary data

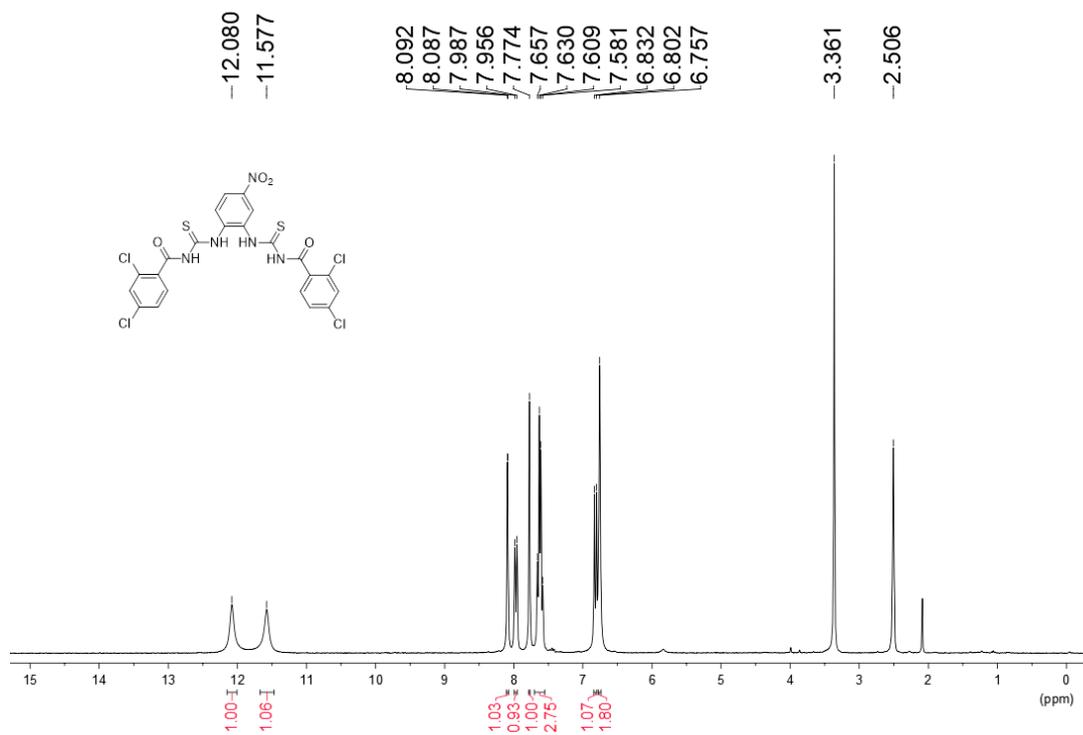


Figure S1. ¹H-NMR of UP-1.

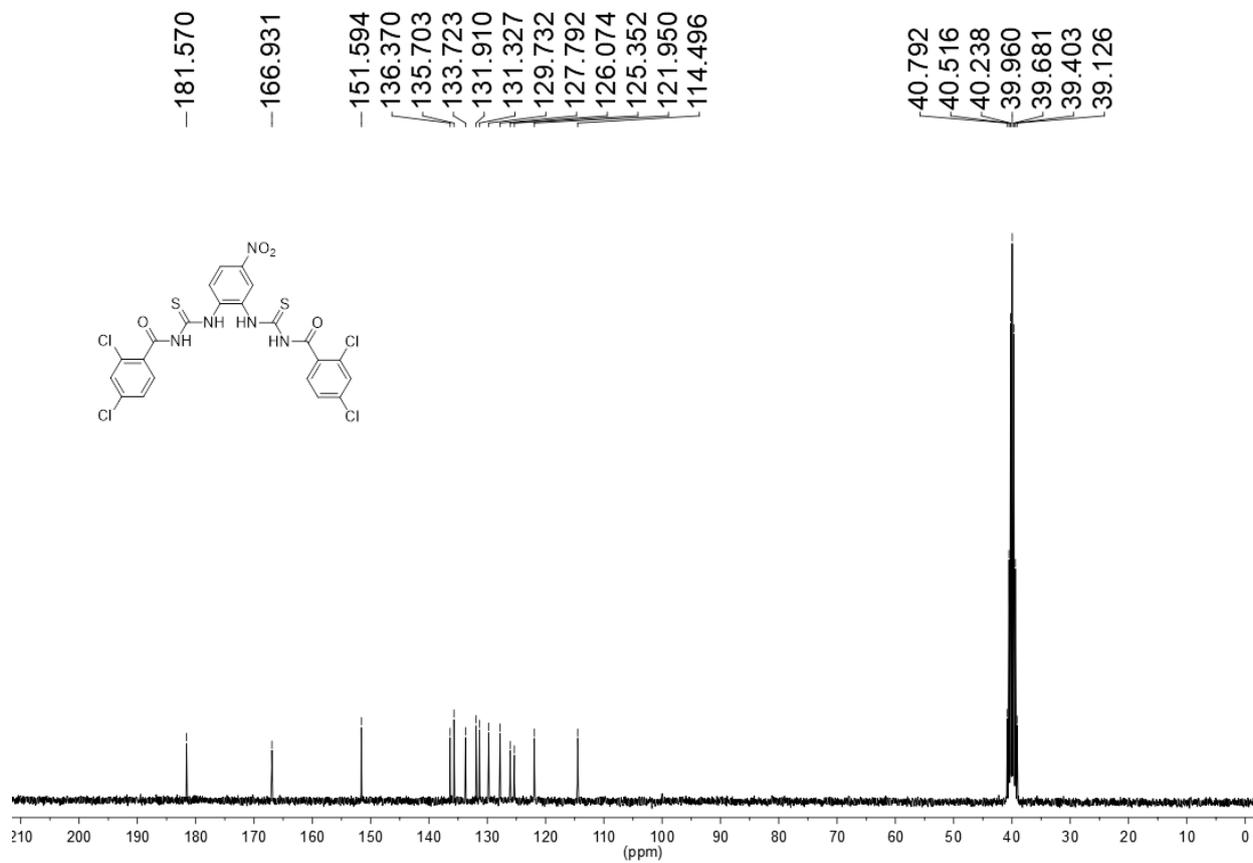


Figure S2. ^{13}C -NMR of UP-1.

FT-IR of UP-1

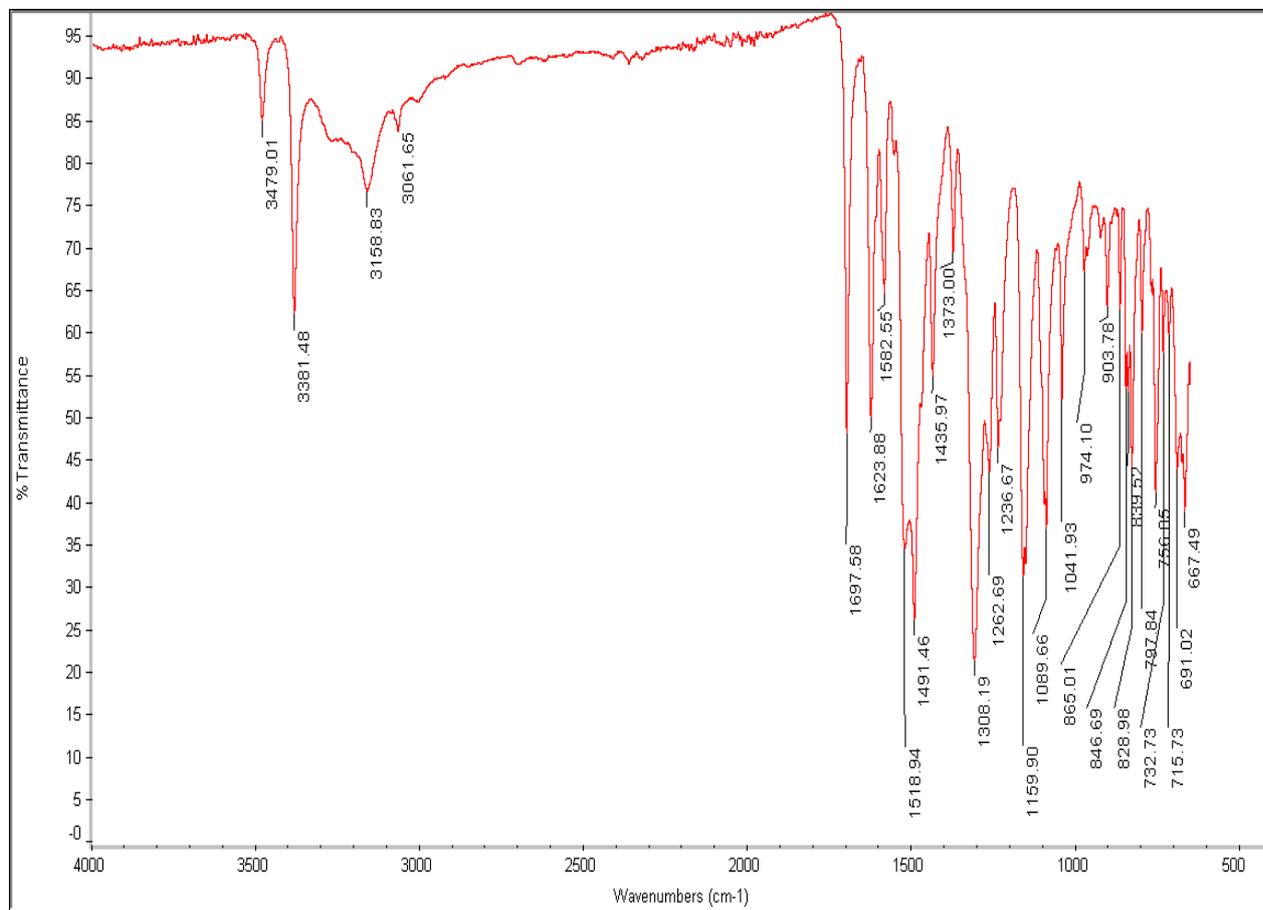


Figure S3. FT-IR of UP-1.

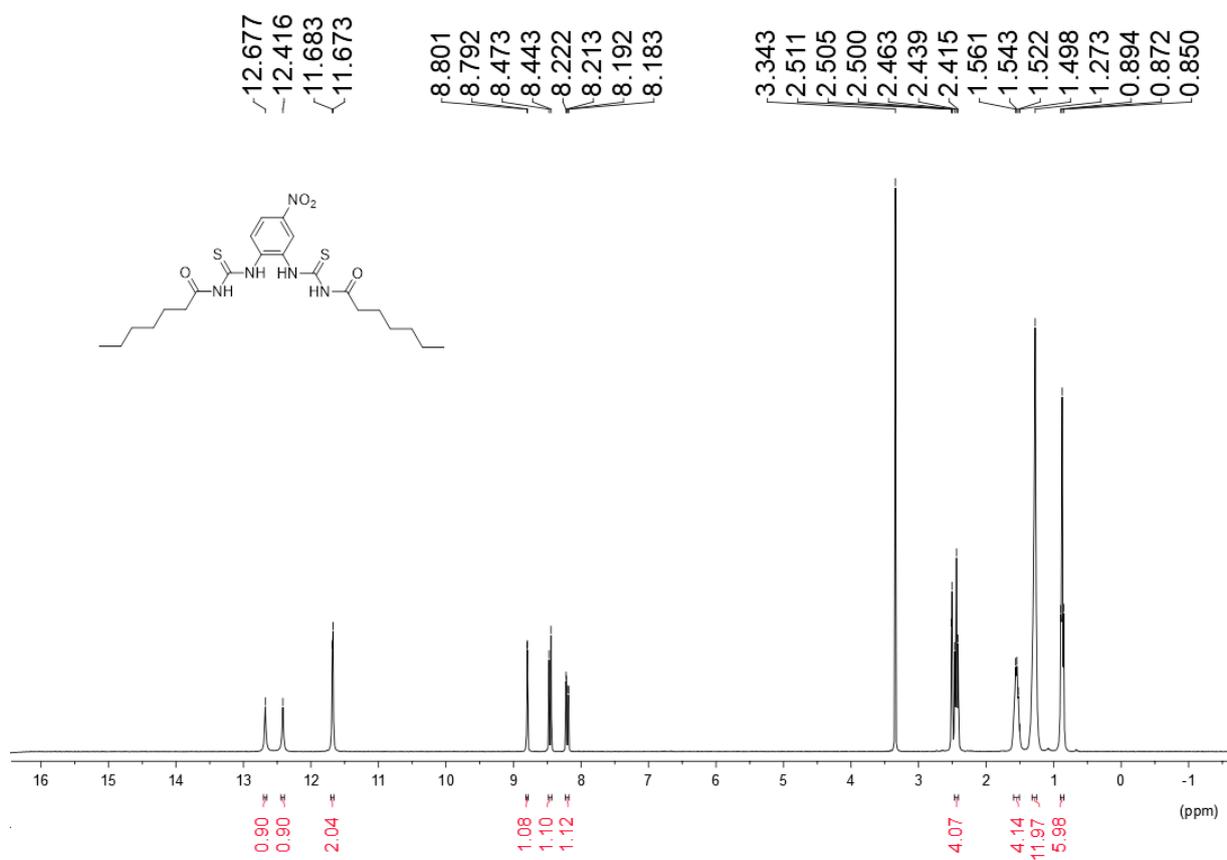


Figure S4. ^1H NMR for UP-2.

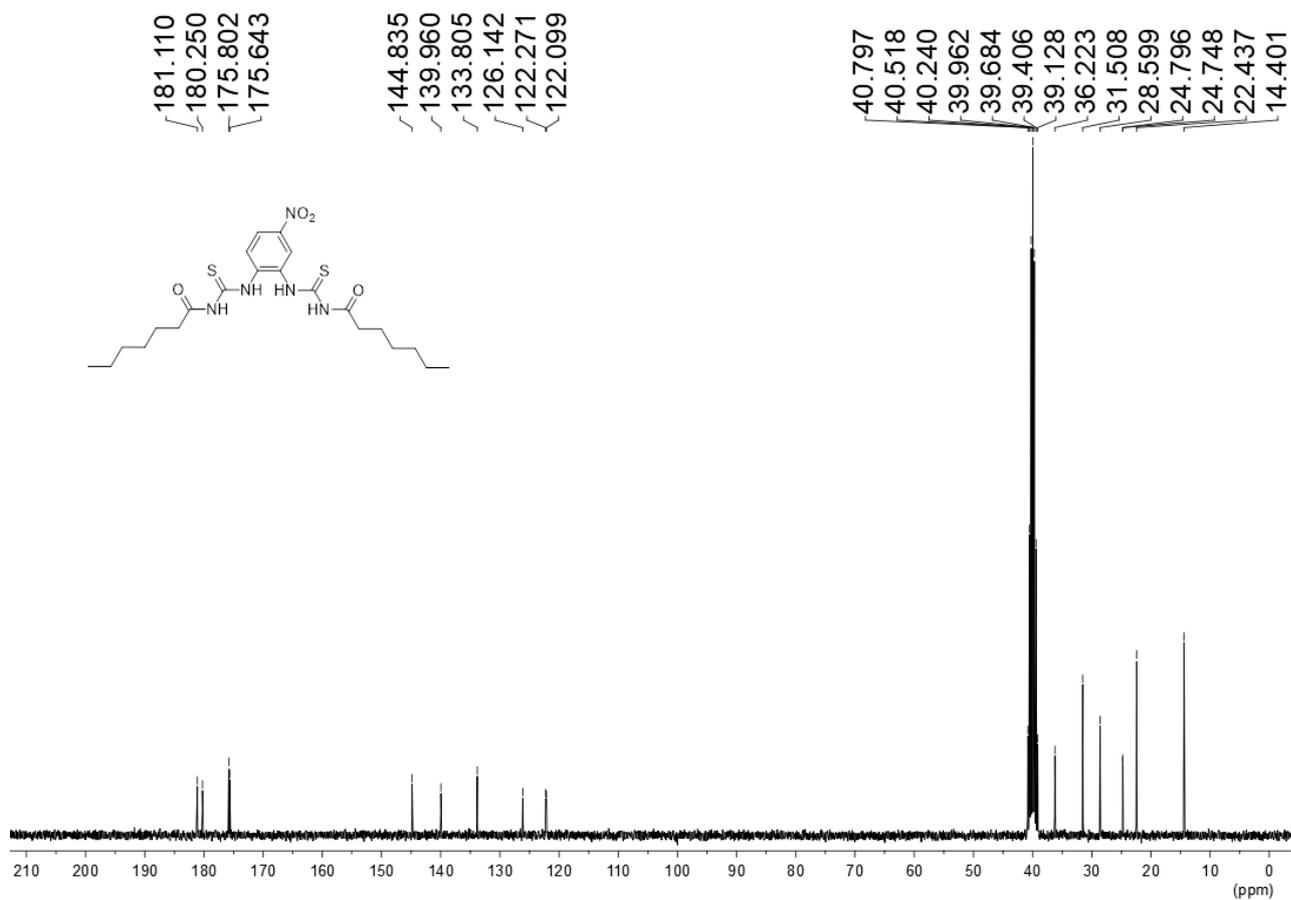


Figure S5. ^{13}C NMR for UP-2.

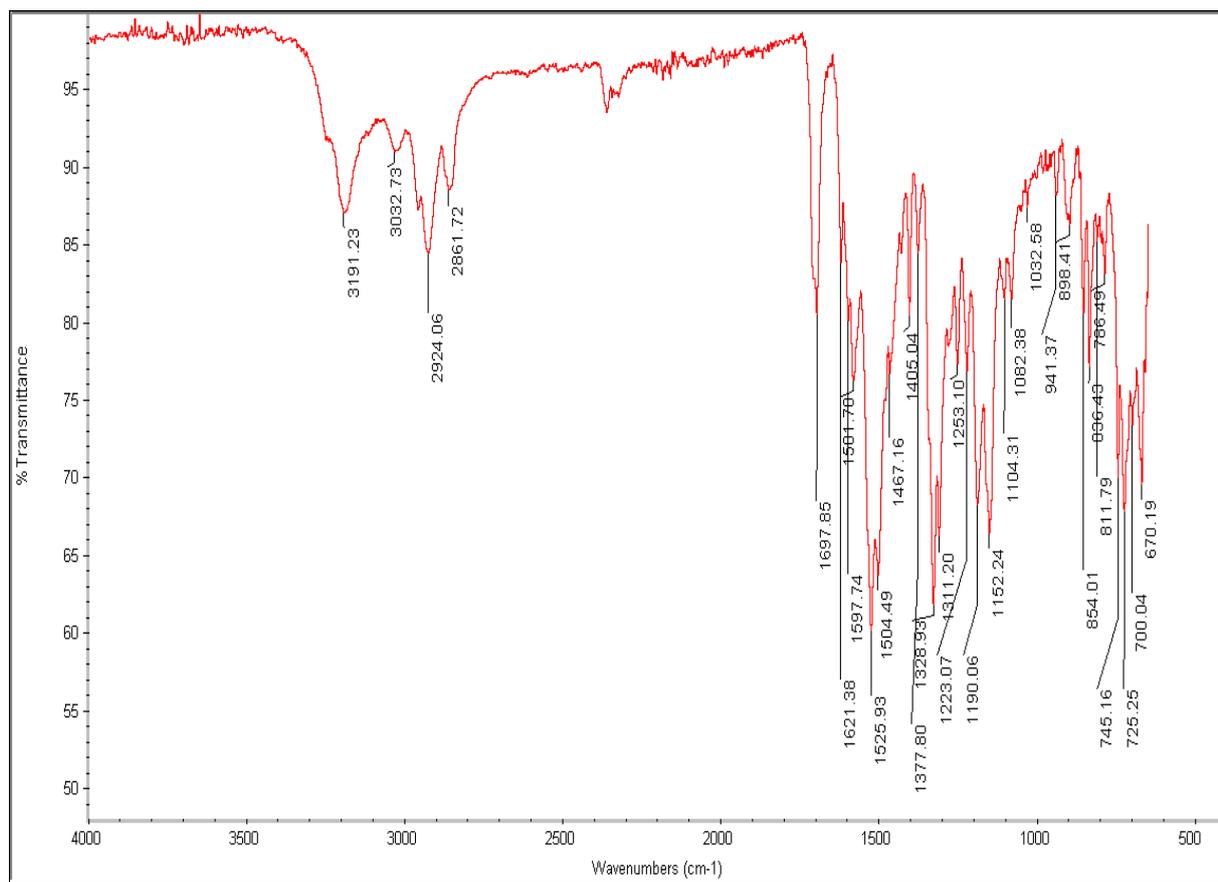


Figure S6. FT-IR of UP-2.

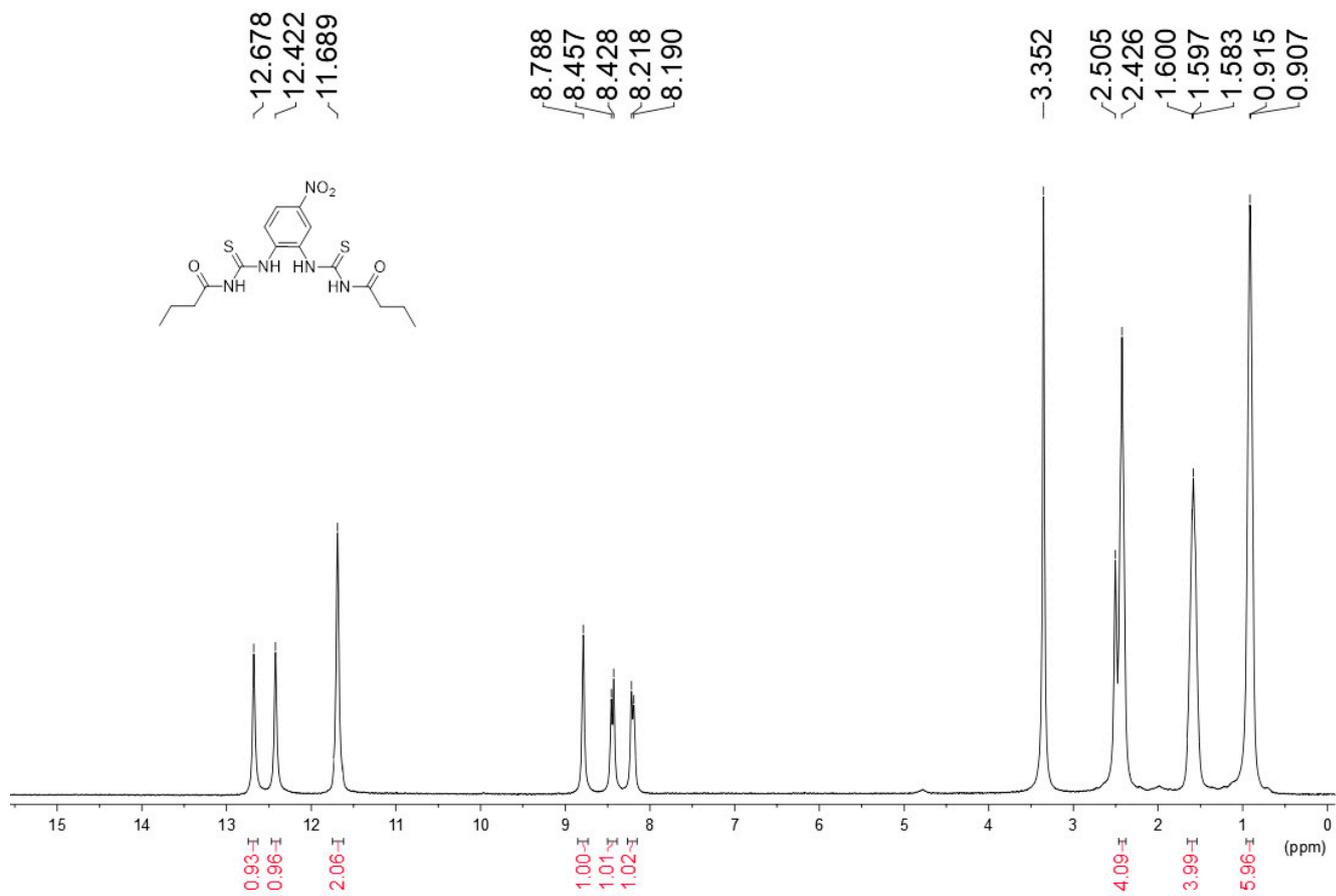


Figure S7. ^1H NMR for UP-3.

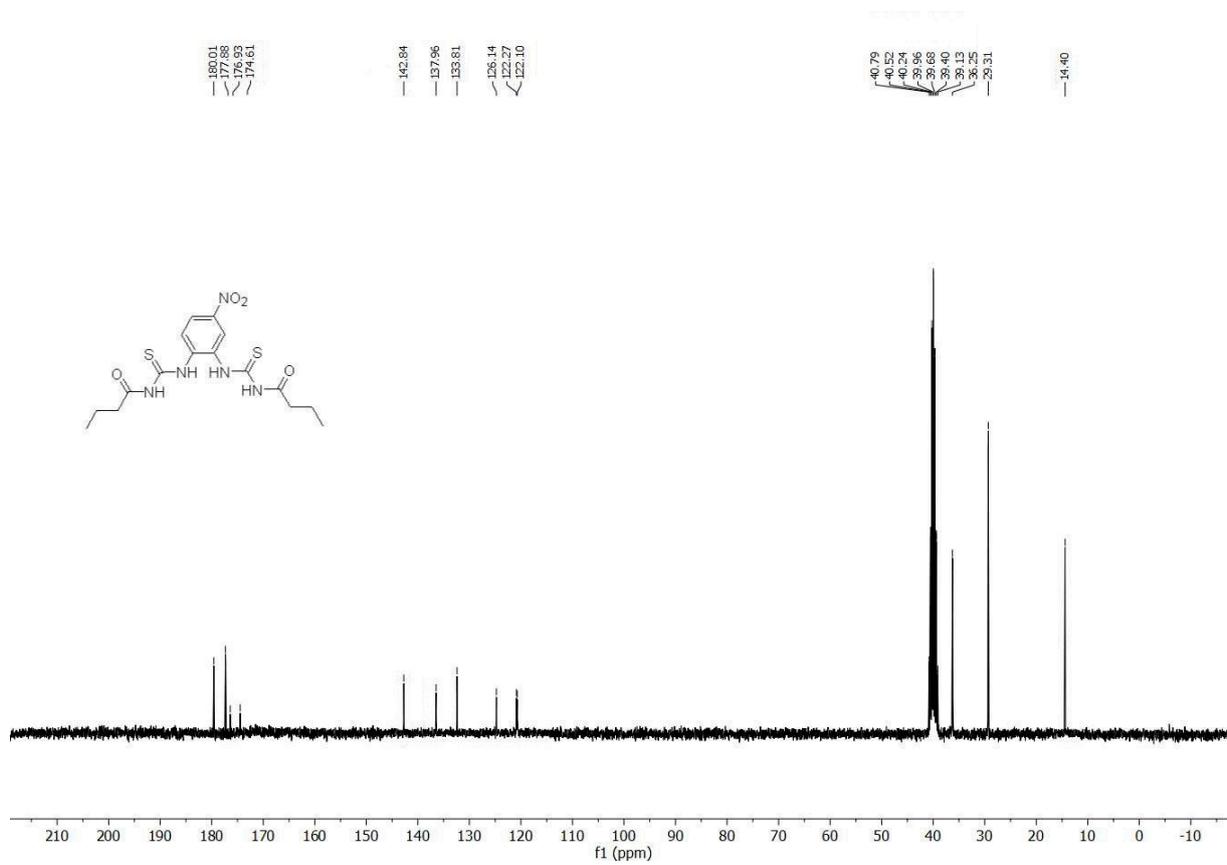


Figure S8. ^{13}C NMR for UP-3.

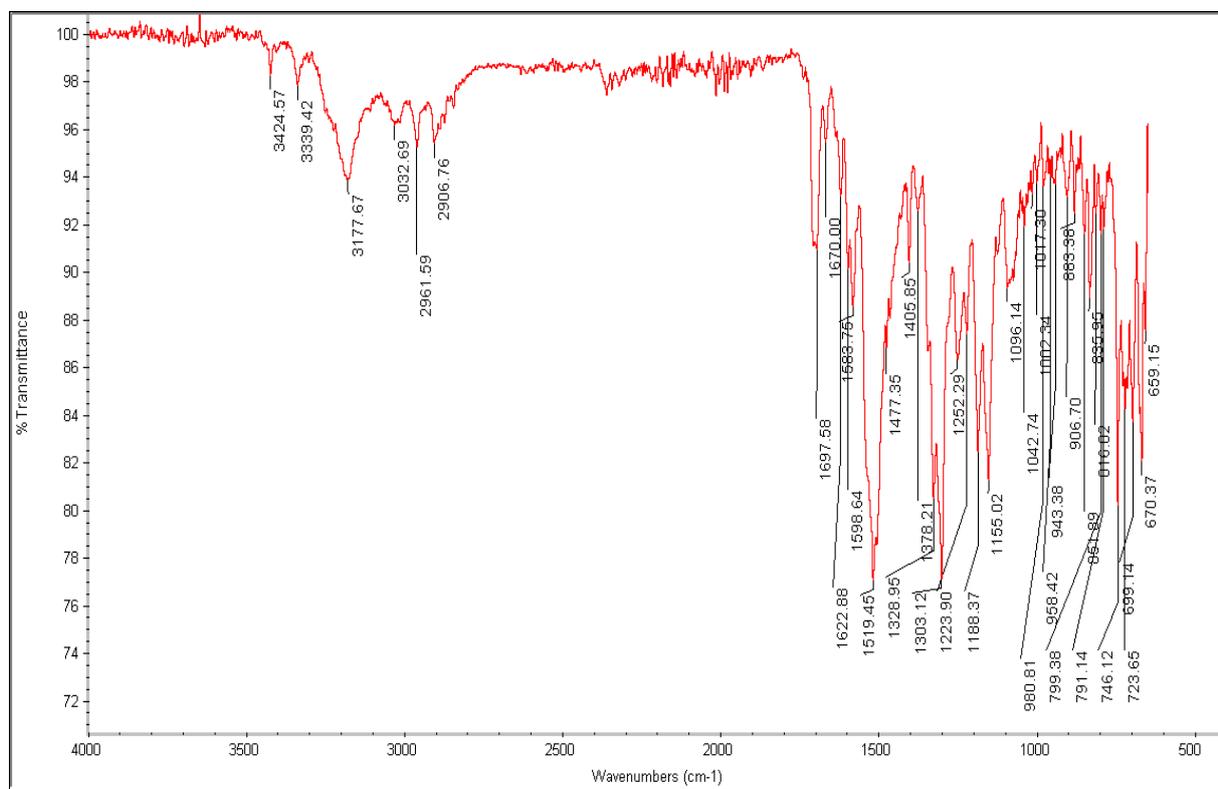


Figure S9. FTIR for UP-3.

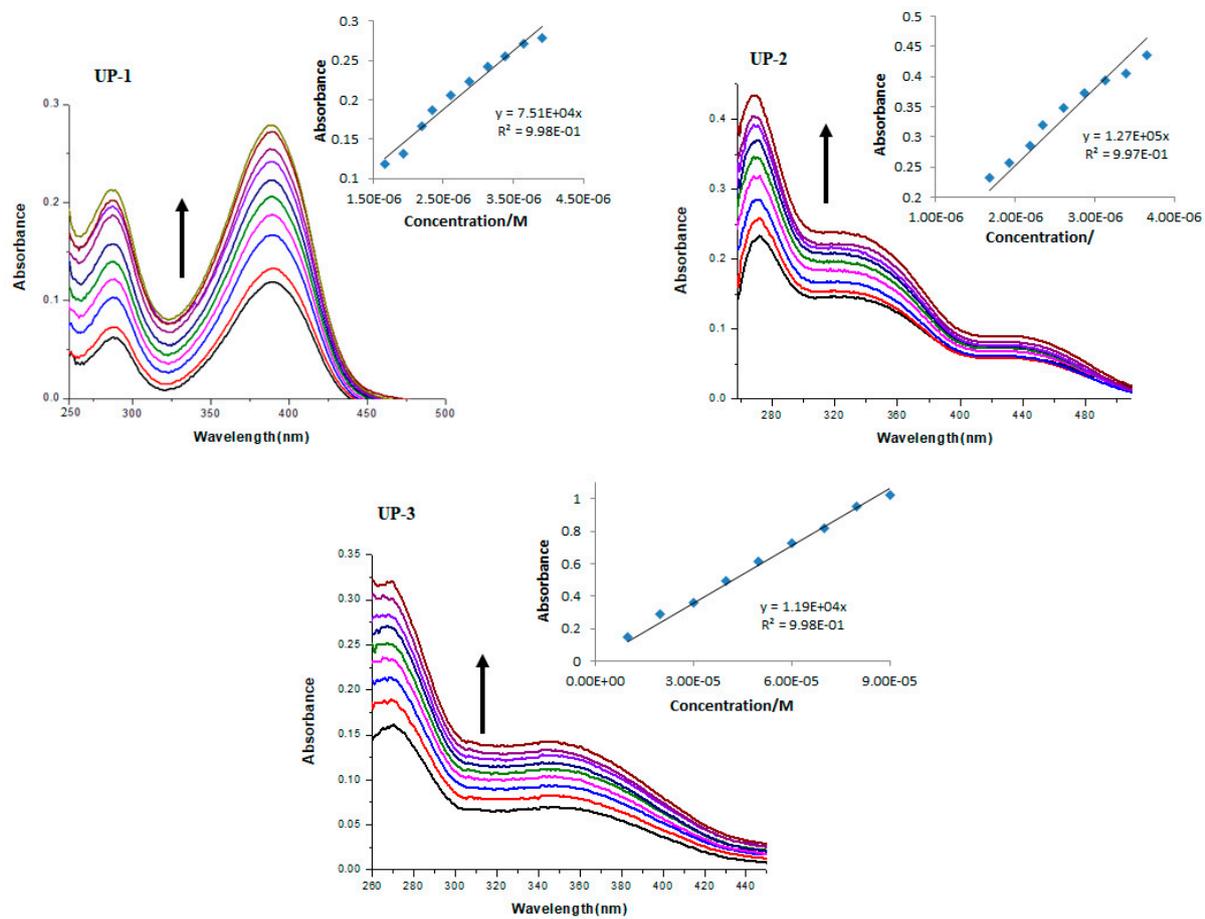


Figure S10. Concentration profile of the compounds, inset: Absorbance vs. Concentration graphs for the determination of molar extinction co-efficient.

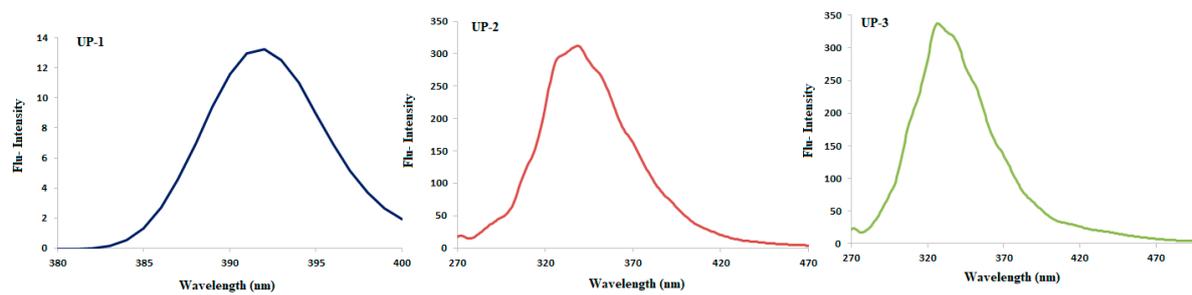


Figure S11. Fluorescence spectrum of compounds UP-1, UP-2 and UP-3.

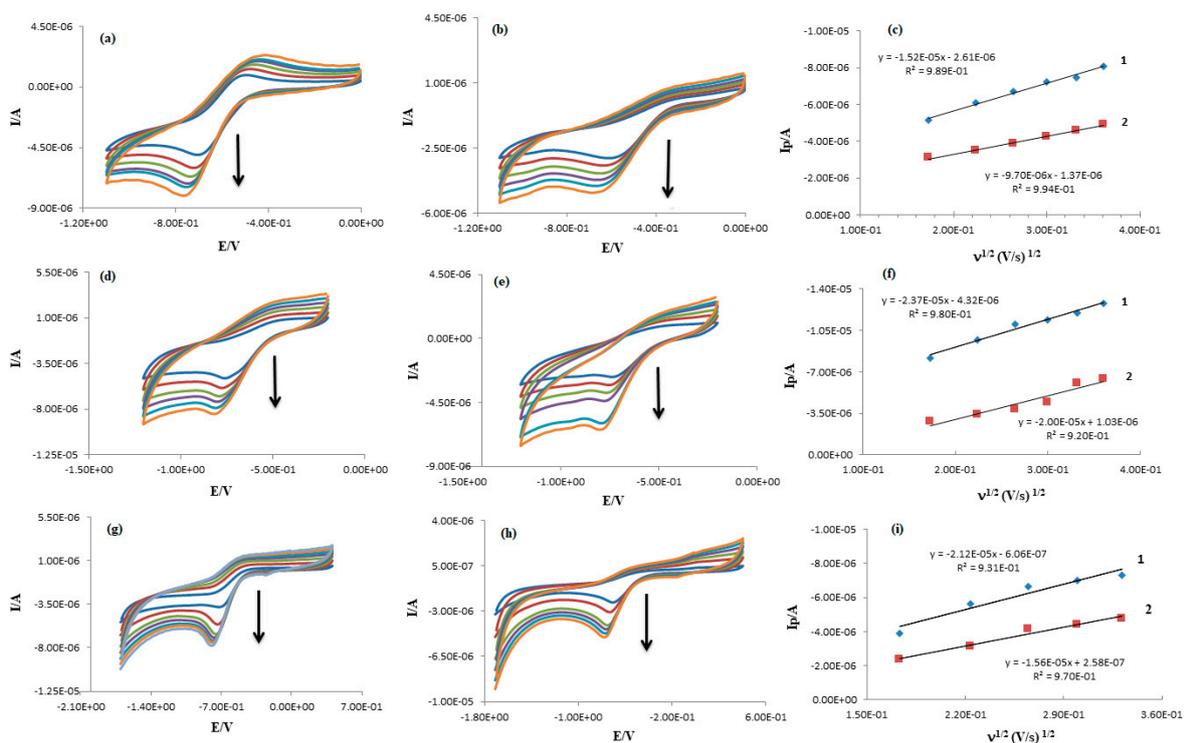
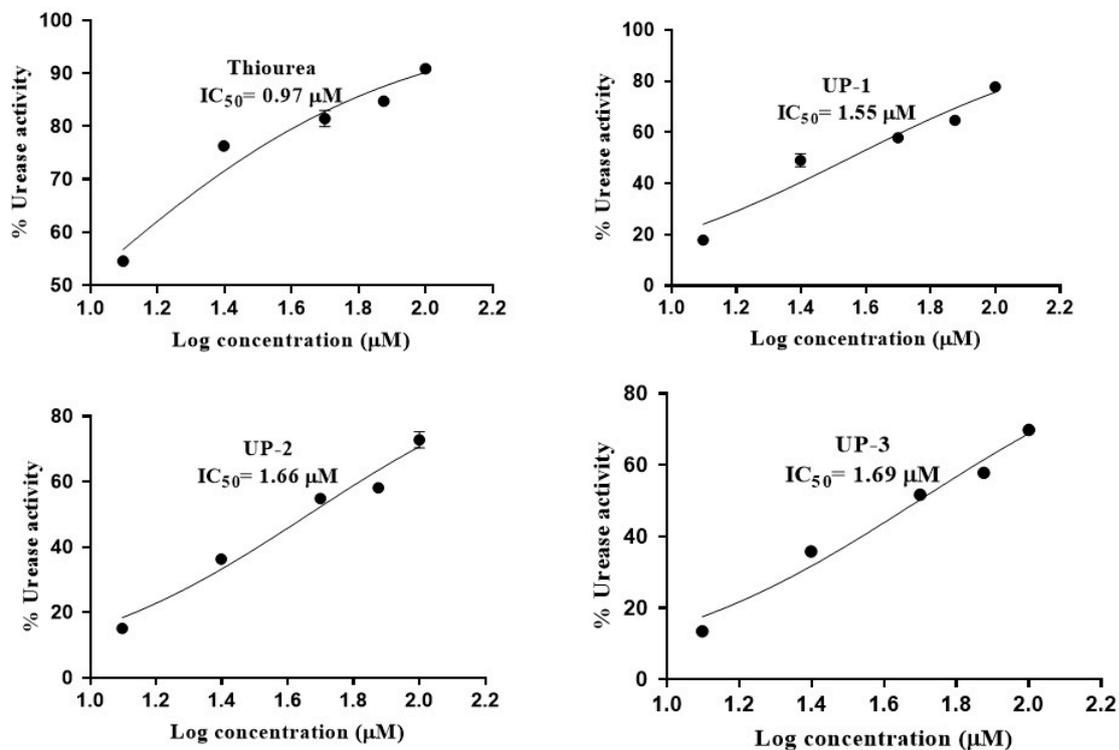


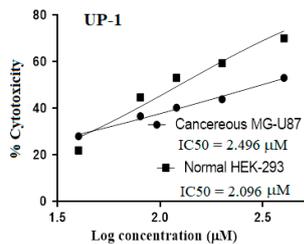
Figure S12. Cyclic voltammetric responses of UP-1, UP-2, and UP-3 without (a,d,g) and with (b,e,h) DNA ($60\mu M$) at various scan rates (0.03 - 0.13 V/s), (c,f,i) represents the graphs of I_p vs $v^{1/2}$ for the compounds before (1) and after (2) DNA.



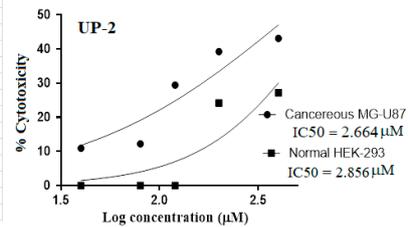
Conc µM	Thiourea				UP-1			UP-2			UP-3		
100	90.91	91.74	90.08	75.65	78.32	79.51	73.1	75.12	70.21	68.96	70.63	69.89	
75	85.32	83.98	85.01	63.64	65.29	65.29	58.68	58.84	57.02	57.85	58.68	57.02	
50	80.25	83.21	80.99	55.98	58.41	59.22	55.32	54.23	55.09	52.12	51.02	51.89	
25	76.86	76.03	76.03	46.28	49.59	51.24	35.54	37.19	36.36	34.71	35.54	37.19	
12.5	55.37	54.55	53.72	16.53	18.18	19.01	14.05	15.7	15.7	13.22	14.88	12.4	
	Thiourea	UP-1	UP-2	UP-3									
LogIC50	0.9708	1.551	1.663	1.694									
Std. Error													
LogIC50	0.03712	0.02878	0.01788	0.01615									

Figure S13. Graphs for the determination of IC_{50} values of control and investigated compounds.

UP1		
Compundereous MGrmal HEK-293		
40	27.87375	21.821
80	36.50791	44.5535
120	40.18088	52.96915
200	43.76153	59.25645
400	52.99003	69.98483
Cancerous MGrmal HEK-293		
LogIC50	2.496	2.096
IC50	313.2	124.7
Std. Error		
LogIC50	0.0324	0.04873



UP2		
Compundereous MGrmal HEK-293		
40µM	10.95212	0
80µM	12.24067	0
120µM	29.44739	0
200µM	39.22111	24.19828
400µM	43.09339	27.19828
LogIC50		
	2.664	2.856
IC50		
	461.8	718.5
Std. Error		
LogIC50	0.1298	0.2027



UP3		
Compundereous MGrmal HEK-293		
40µM	17.18346	17.31411
80µM	18.56774	37.49115
120µM	37.04319	44.33485
200µM	41.14064	60.74355
400µM	56.97306	60.97623
LogIC50		
	2.459	2.22
IC50		
	287.9	165.9
Std. Error		
LogIC50	0.06558	0.07069

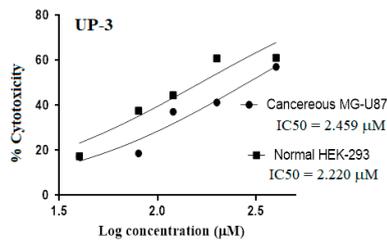


Figure S14. Graphs for the determination of IC₅₀ values of investigated compounds against cancerous (MG-U87) and normal (HEK-293) cell lines.