

Electronic Supplementary Material

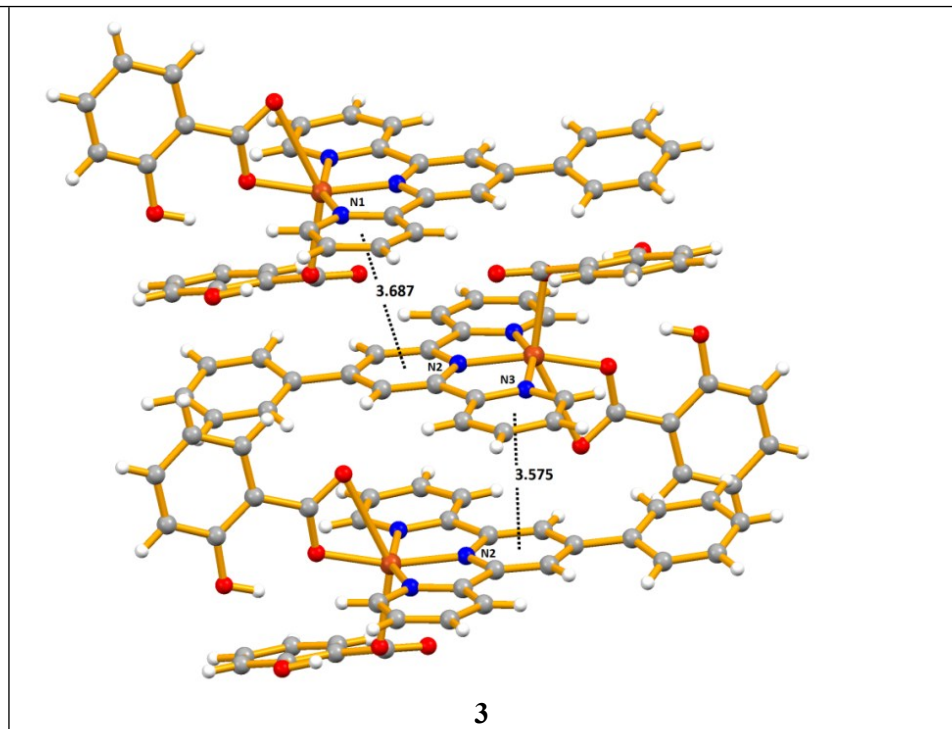
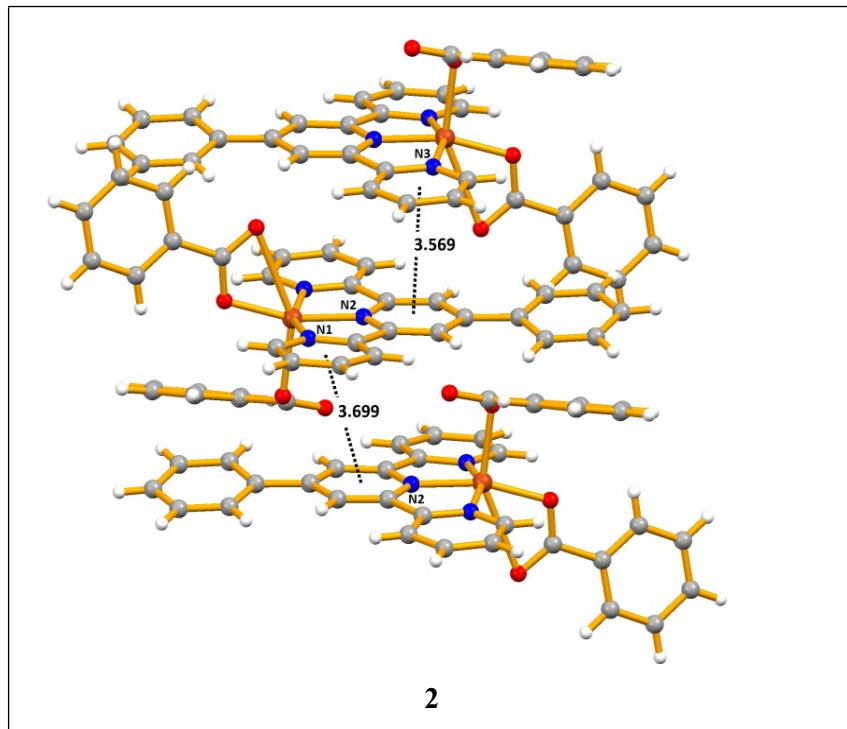
Synthesis, Characterization, Thermal Properties and Antiproliferative Potential of Copper(II) 4'-phenyl-terpyridine Compounds

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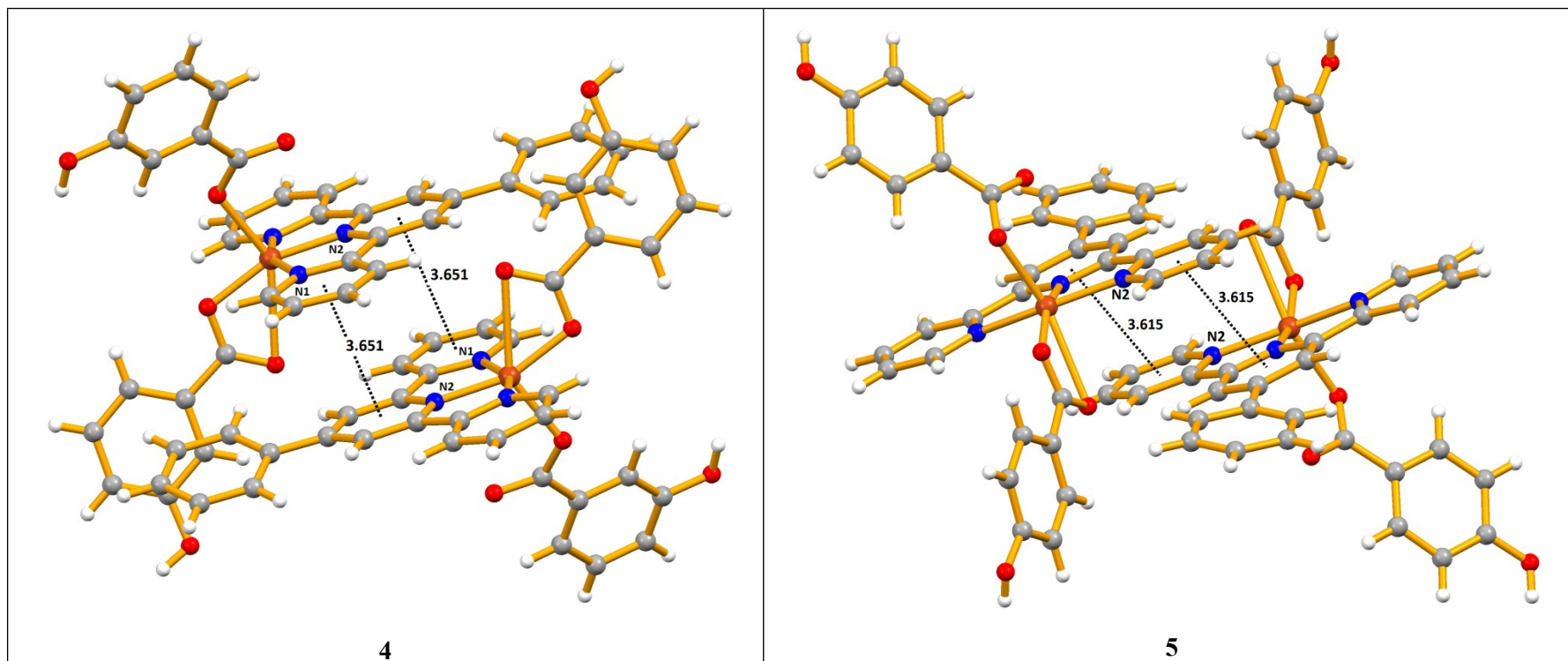


Figure S1 - Fragment of the crystal packing diagrams of **2** – **5** showing the $\pi \cdots \pi$ interactions between the pyridyl rings.

Table S1. Hydrogen bond geometry [\AA , $^\circ$] in **1** and **3 – 5**.

D–H \cdots A	$d(\text{H}\cdots\text{A})$	$d(\text{D}\cdots\text{A})$	$\angle(\text{D}–\text{H}\cdots\text{A})$	Symmetry codes
1				
O1–H1A \cdots O6	1.90	2.741(2)	172	-1+x,y,-1+z
O1–H1B \cdots O5	2.02	2.852(2)	165	x,1/2-y,-1/2+z
O2–H2A \cdots O8	1.93	2.680(2)	146	-1+x,y,-1+z
O2–H4B \cdots O4	1.78	2.616(2)	166	<i>intra</i>
3				
O5–H5O \cdots O3	1.82(4)	2.584(3)	139(4)	<i>intra</i>
O6–H6O \cdots O1	1.68(3)	2.549(3)	160(5)	<i>intra</i>
4				
O5–H5O \cdots O7	1.82(3)	2.723(2)	174(3)	1-x,-y,-z
O6–H6O \cdots O2	1.73(2)	2.601(2)	166(2)	-1+x,-1+y,z
O7–H7O \cdots O1	1.87(3)	2.747(2)	166(2)	
5				
O5–H5E \cdots O3	1.87	2.671(2)	165	1-x,1/2+y,1/2-z
O6–H16E \cdots O4	1.77	2.618(3)	176	-x,-1/2+y,1/2-z

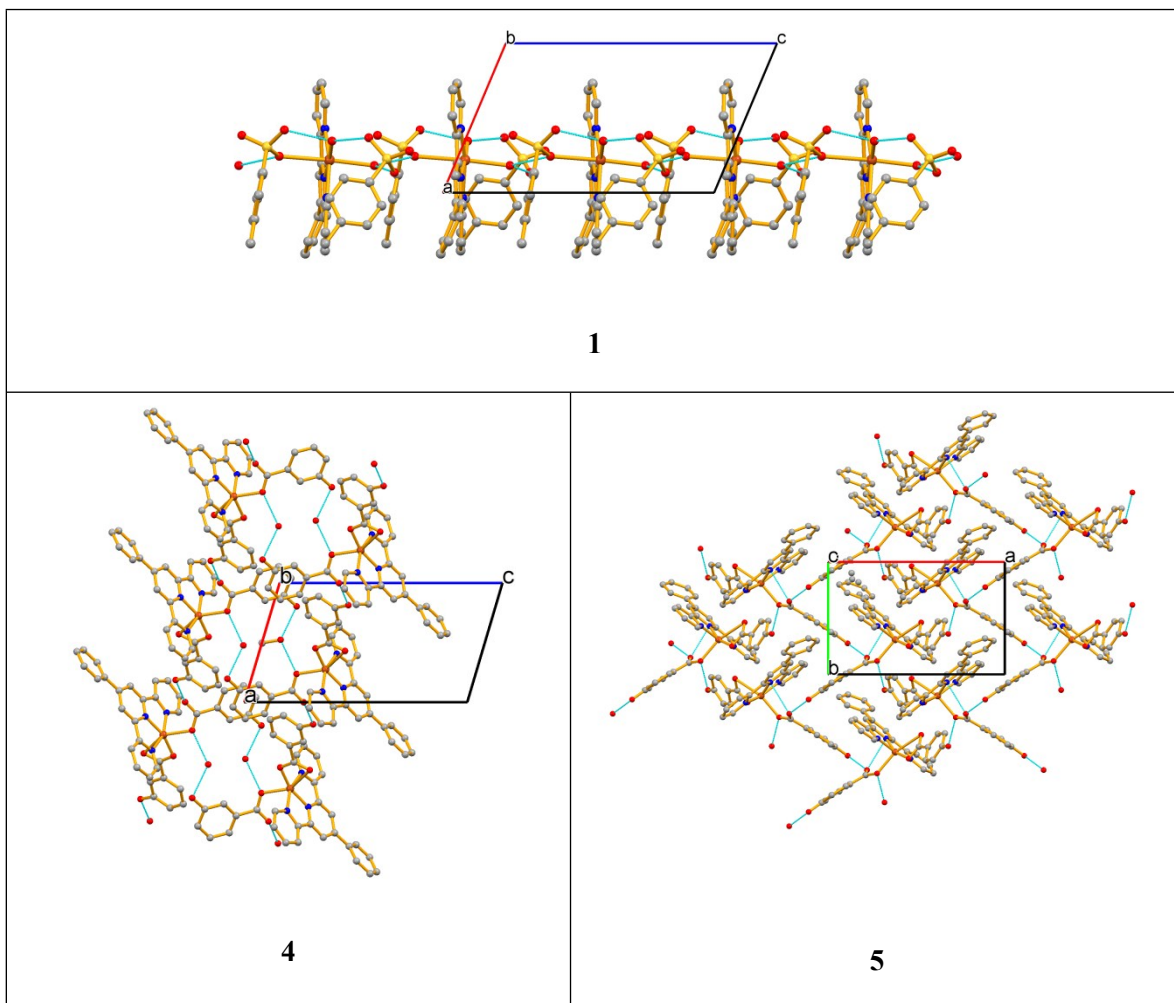


Figure S2 – Hydrogen bond interactions (in dashed light blue lines) leading to infinite one-dimensional chains (in compounds **1** and **4**) and to an infinite two-dimensional network (in compound **5**).

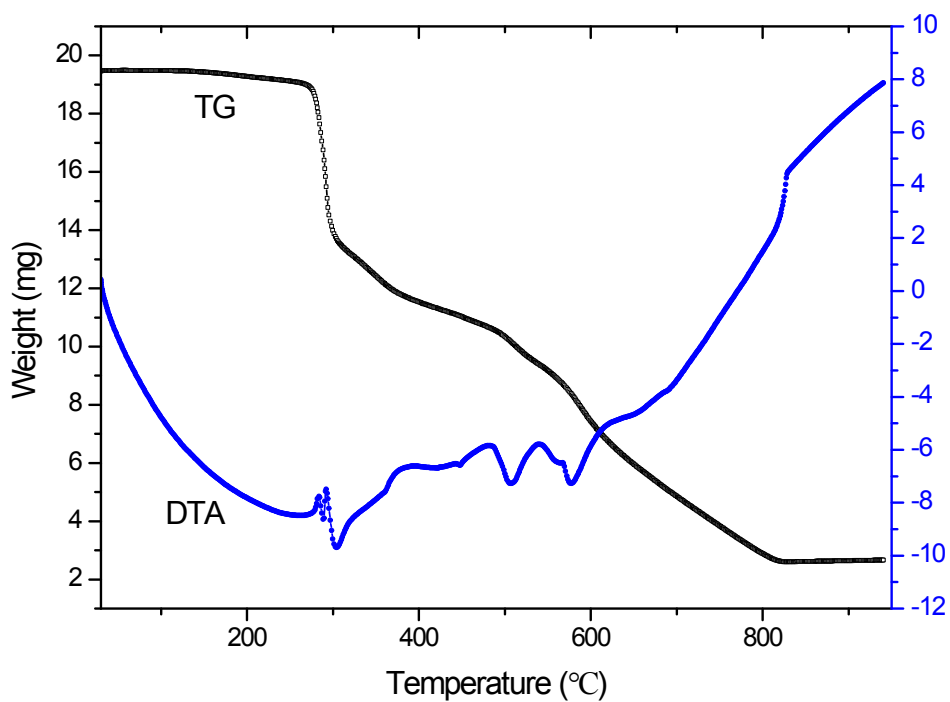


Figure S3 – Thermal analyses (TG and DTA plots) for complex 3.

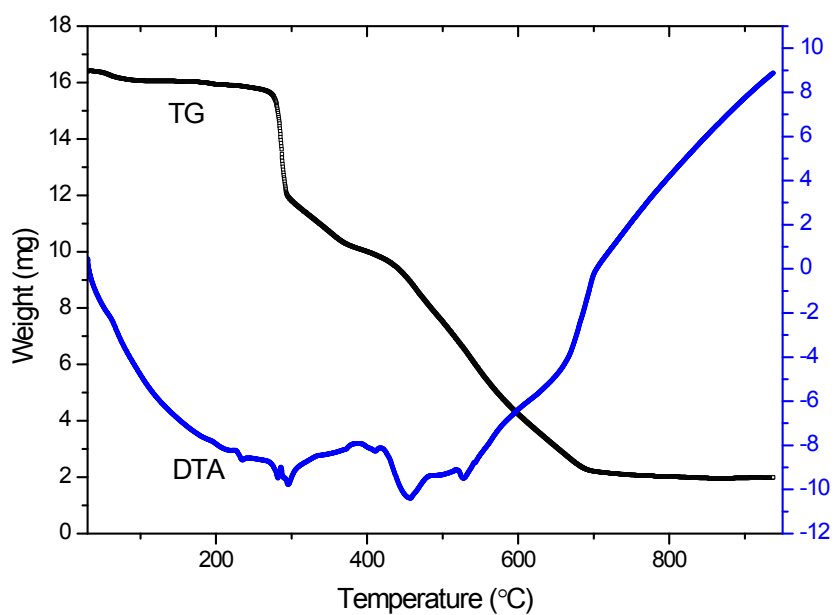


Figure S4 – Thermal analyses (TG and DTA plots) of complex 4.

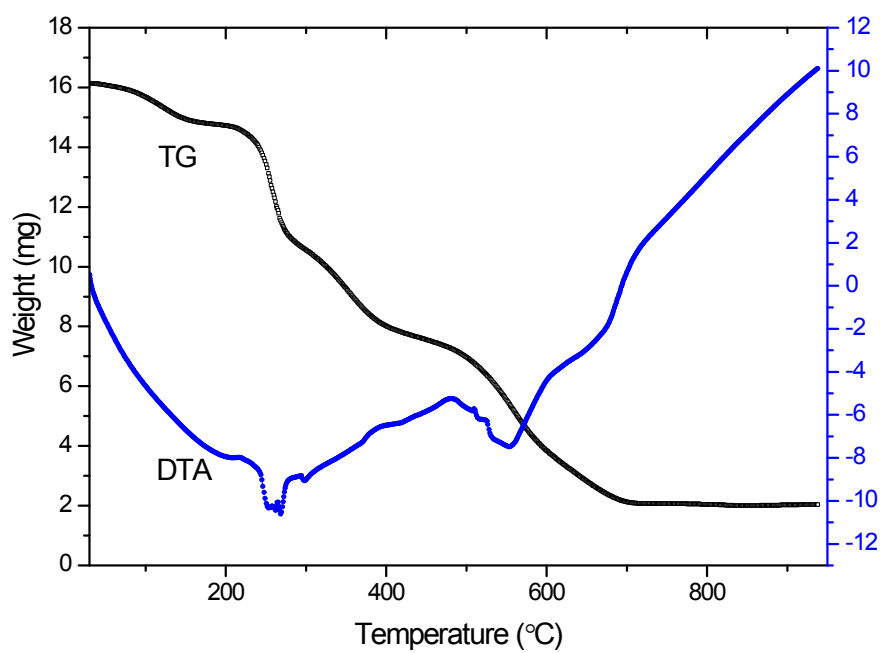


Figure S5 – Thermal analyses (TG and DTA plots) of complex 5.

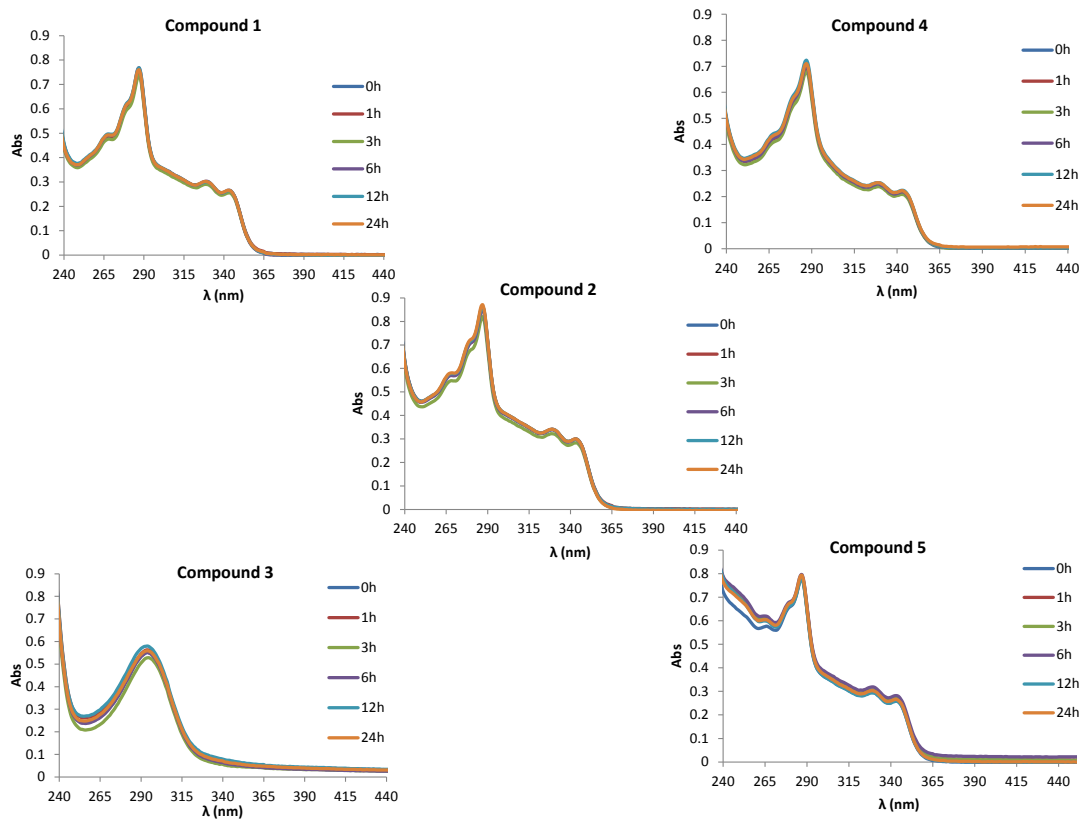


Figure S6- UV spectra of compounds **1-5** incubated (20 μ M) for 1, 3, 6, 12 and 24 h in PBS at 37 $^{\circ}$ C.

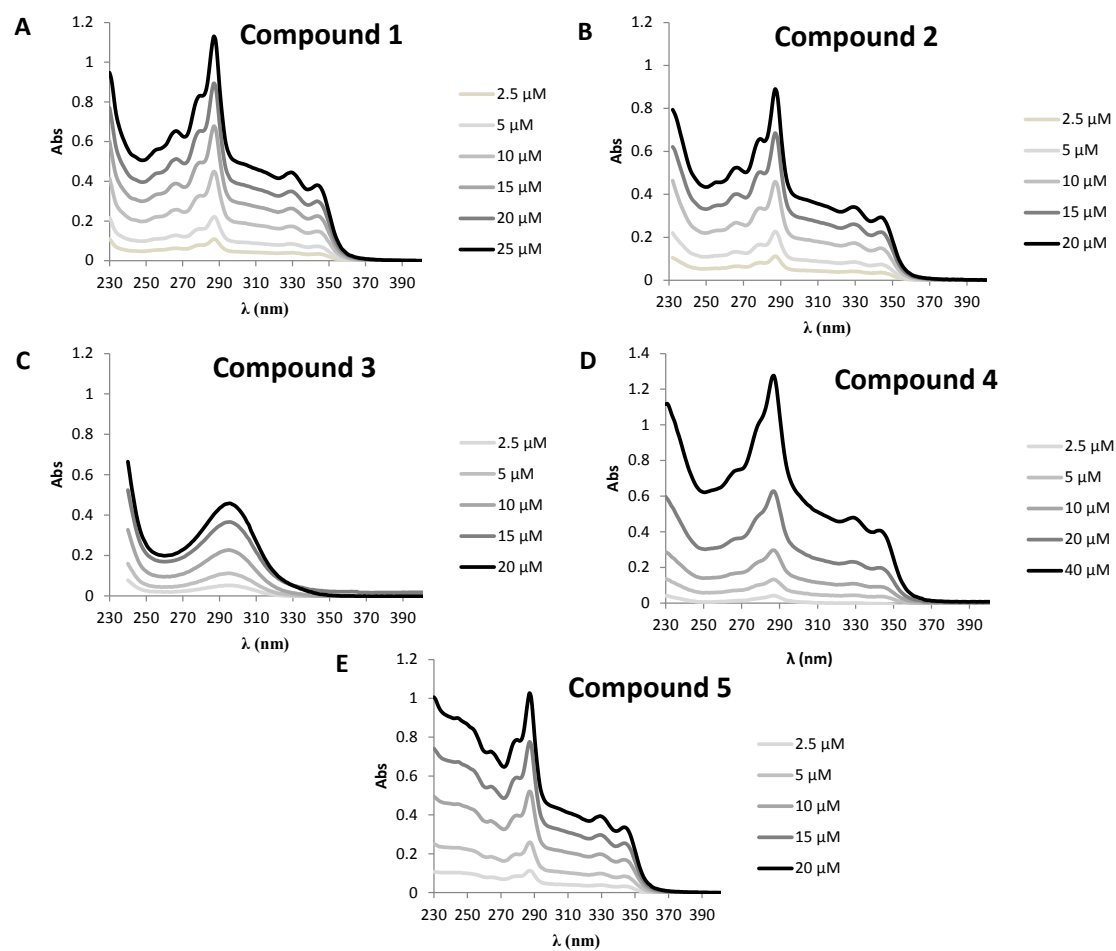


Figure S7- UV spectra of increasing concentrations of compounds **1-5** (2.5 - 40 μM) incubated for 24 h in buffer 5 mM Tris-HCl, 50 mM NaCl (pH 7.2) at 37 $^{\circ}\text{C}$. Spectra were used for calculating ϵ_f , the extinction coefficient for the free compound.