

Design, synthesis, characterization and biomimetic evaluation of novel chrysin derivatives of copper(II) complexes as medicinal purpose

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Supplementary Files

Table S1 ESR spectral data of the chrysin derivatives of copper complexes

Complex	g	g _⊥	g _{iso}	A	A _⊥	K	K _⊥	α ²	β ²	γ ²	f(g / A)
Cu-3e at 300k			2.05								
Cu-3e at 77k	2.22	2.03	-	143	39	0.91	0.56	0.71	1.22	0.77	154
Cu-3f at 300k			2.08								
Cu-3f at 77k	2.21	2.04	-	141	48	0.82	0.45	0.77	1.3	0.72	156
Cu-3g at 300k			2.12								
Cu-3g at 77k	2.26	2.05	-	145	52	0.74	0.49	0.81	1.3	0.83	152
Cu-3h at 300k			2.05								
Cu-3h at 77k	2.25	2.04	-	155	39	0.92	0.54	0.73	1.2	0.74	145

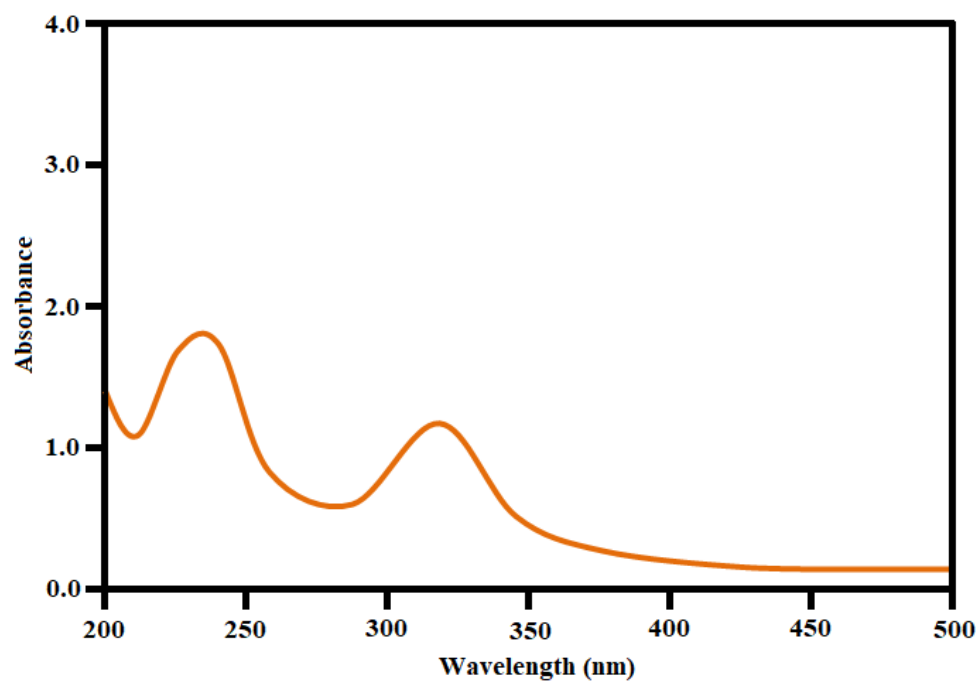


Fig. S1 Uv-Vis., spectrum of chrysin derivatives of ligand 3g.

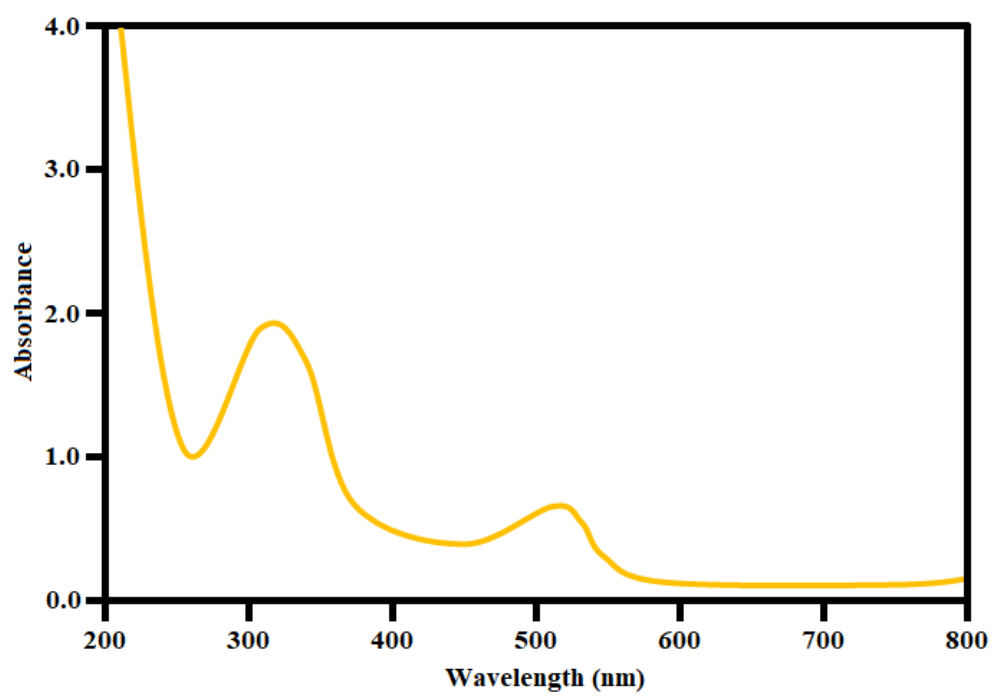


Fig. S2 Uv-Vis., spectrum of chrysin derivatives of copper complex Cu-g.

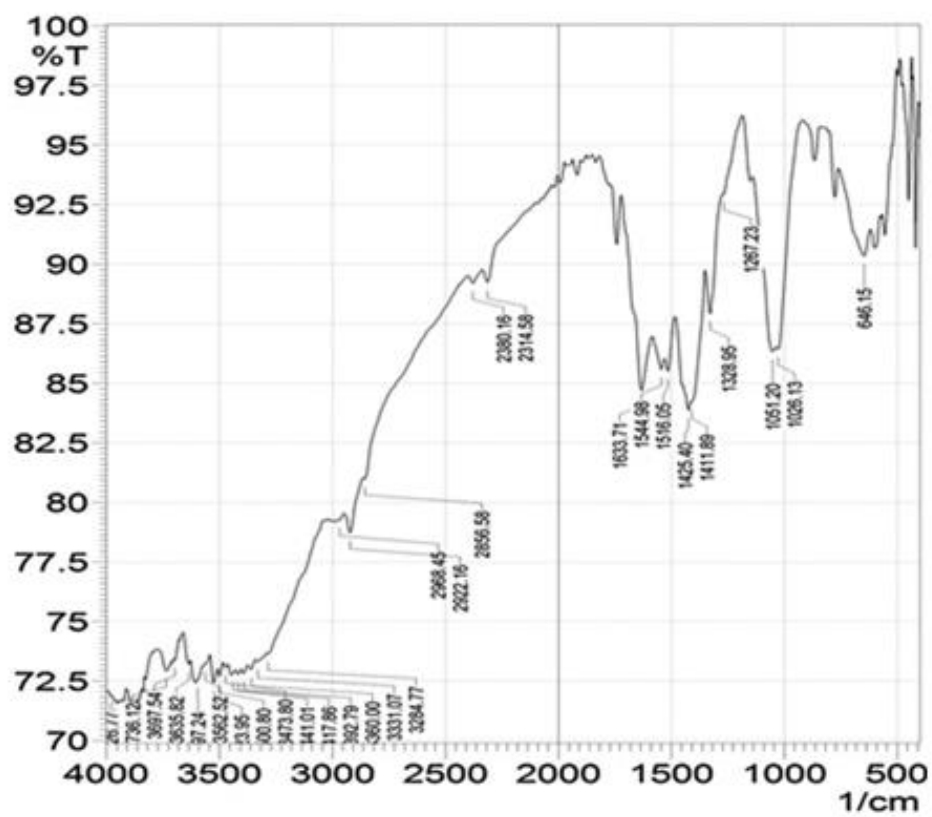


Fig. S3 FT-IR spectrum of chrysin derivatives of copper complex (Cu-g).



Fig. S4 ¹H-NMR spectrum of ligand 3g.

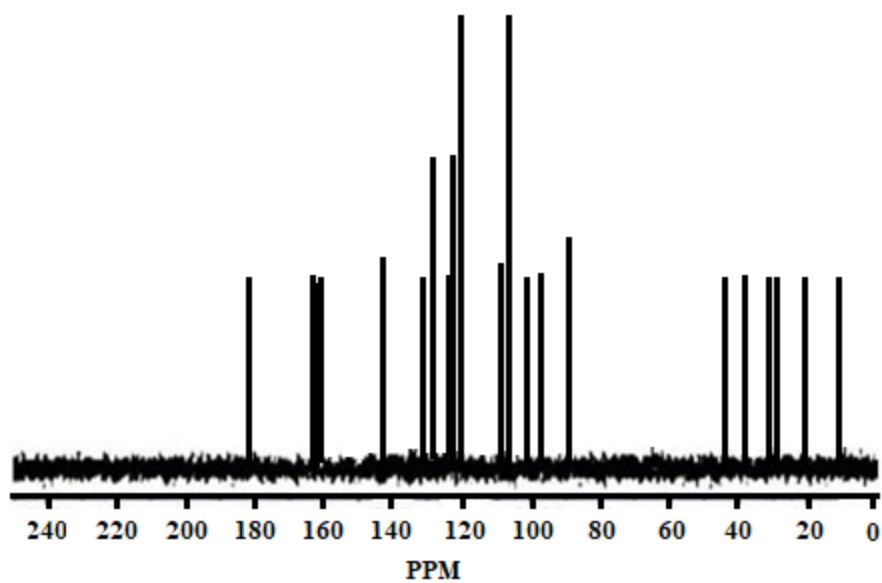


Fig. S5 ^{13}C -NMR spectrum of ligand 3g.

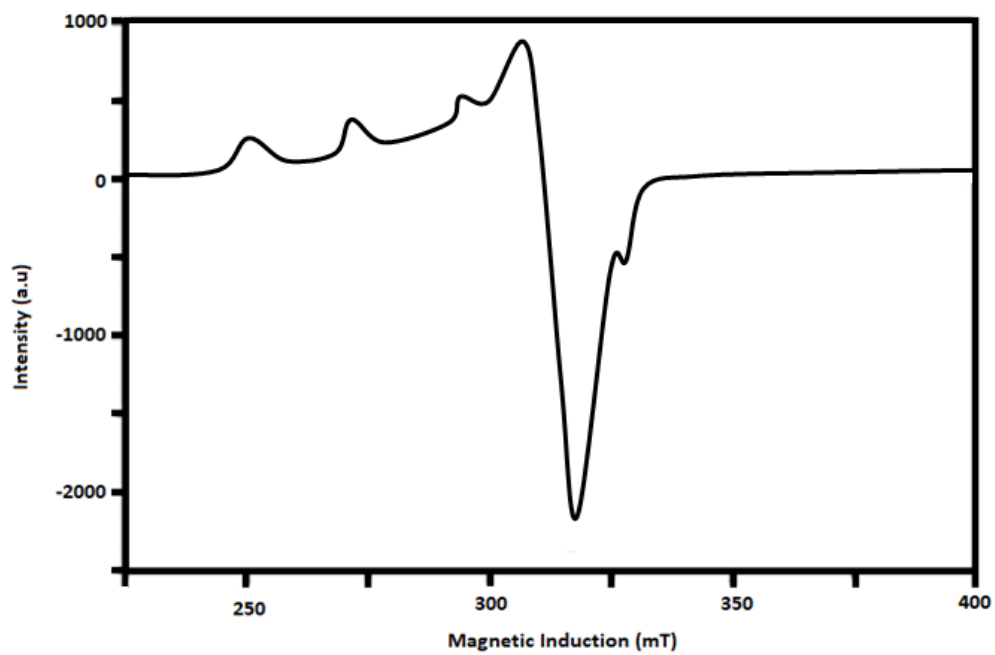


Fig. S6 ESR spectrum of $[\text{Cu-g}(\text{OAc})(\text{H}_2\text{O})]$ (Cu-3g) complex in DMSO solution at 77 K.

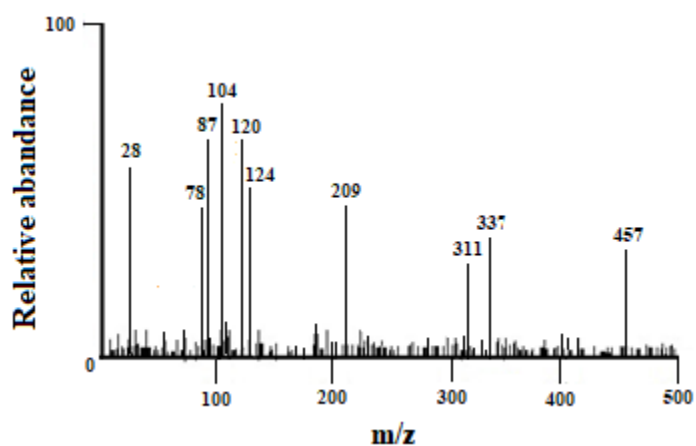


Fig. S7 Mass spectram of ligand 3h.

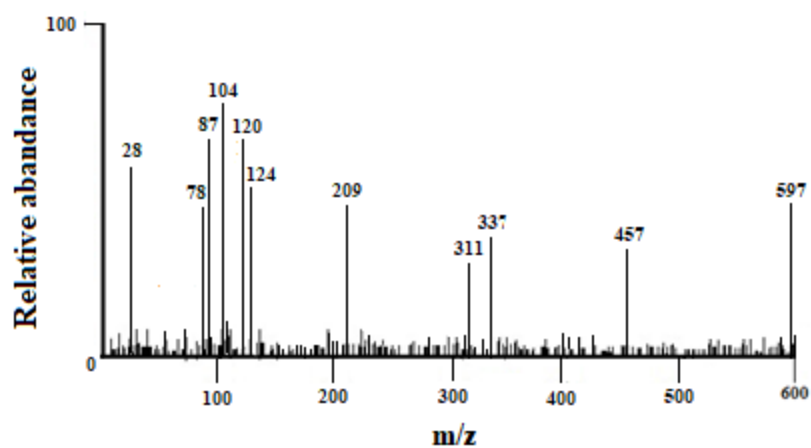


Fig. S8 Mass spectram of copper complex [Cu-h(OAc)(H₂O)] (Cu-3h).

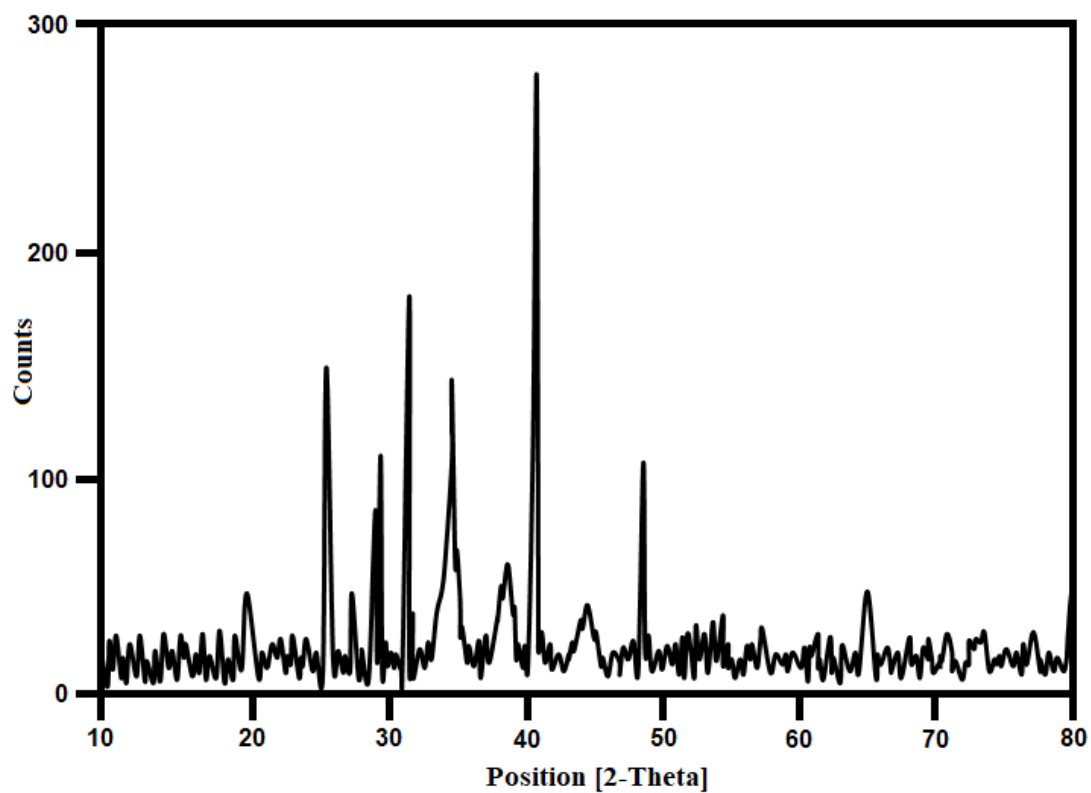


Fig. S9 Powder XRD pattern of [Cu-h(OAc)(H₂O)] copper complex.

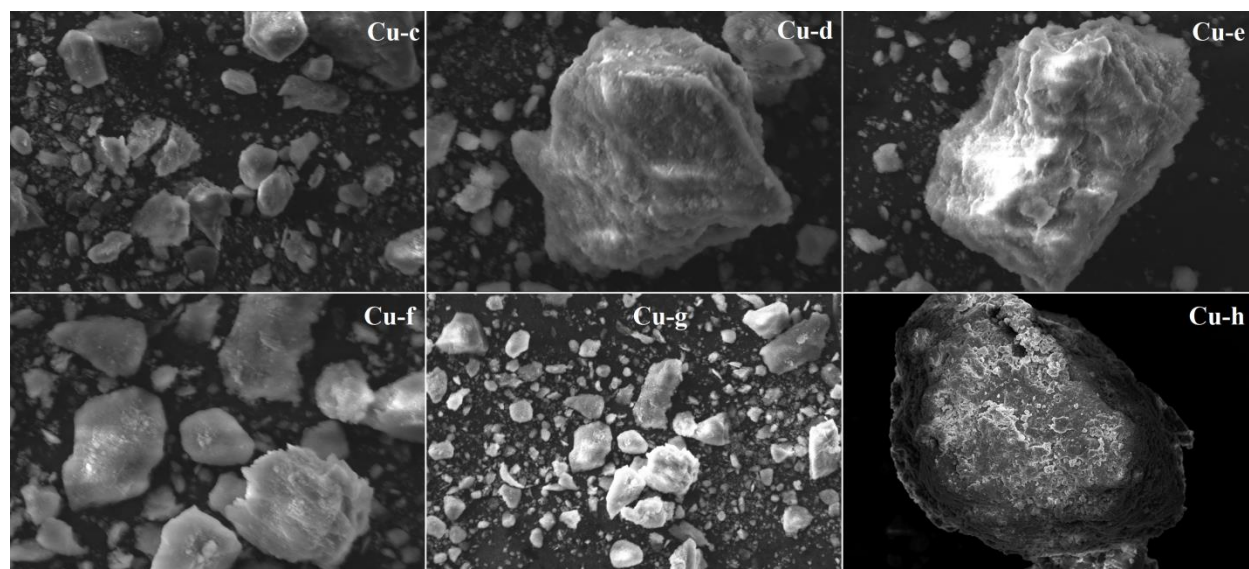


Fig. S10 SEM image of copper complexes of (Cu-e), (Cu-d), (Cu-e), (Cu-f), (Cu-g) and (Cu-h).