

## Recent overview on potent antioxidant activity of coordination compounds

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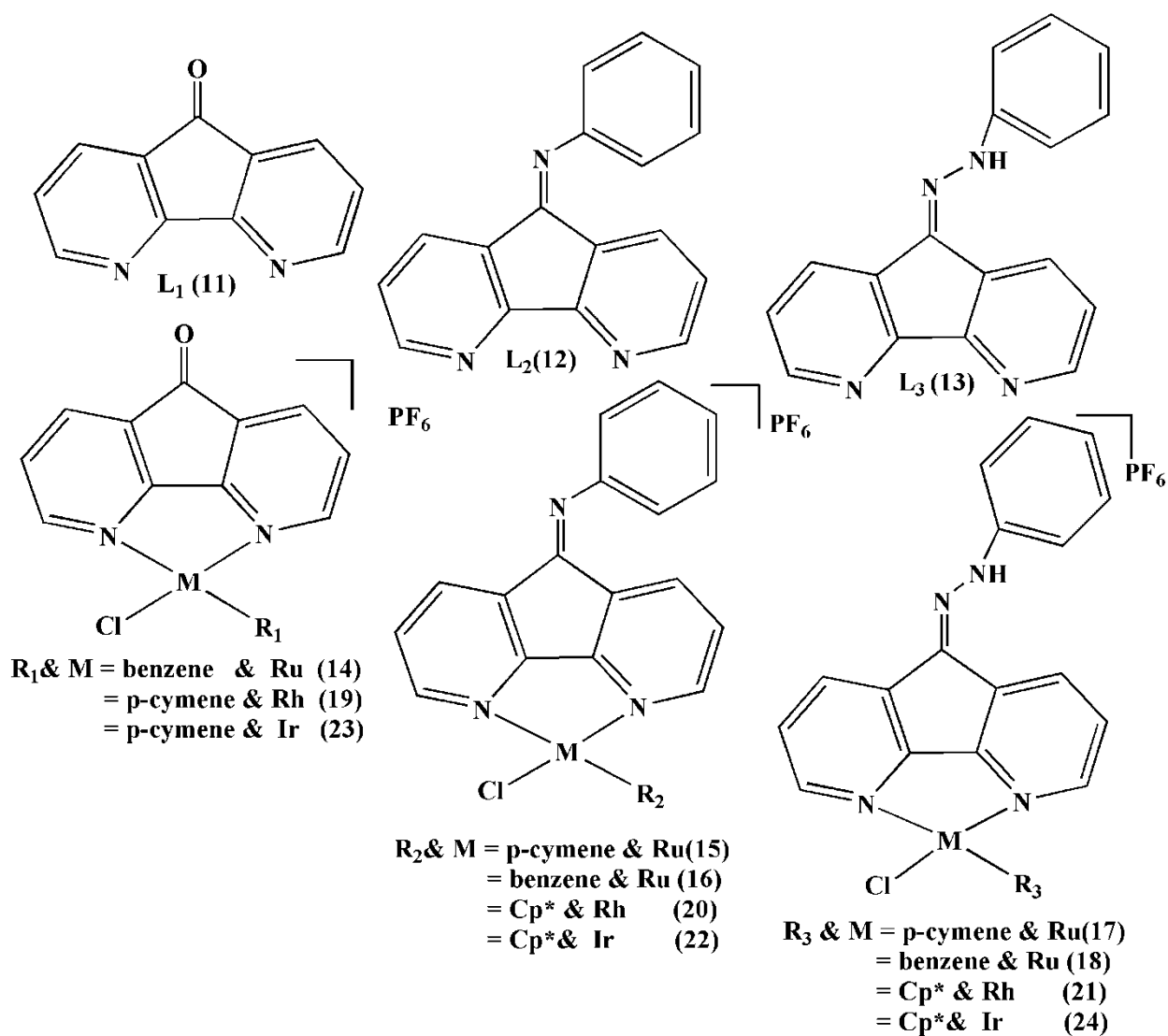
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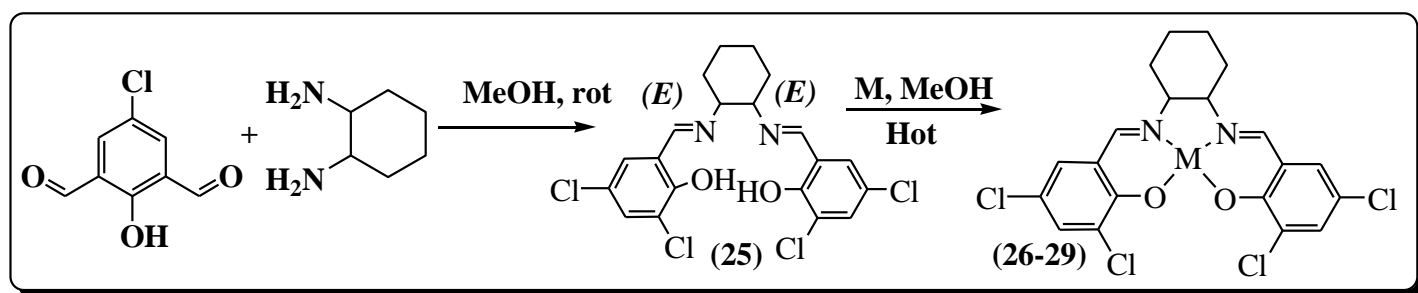
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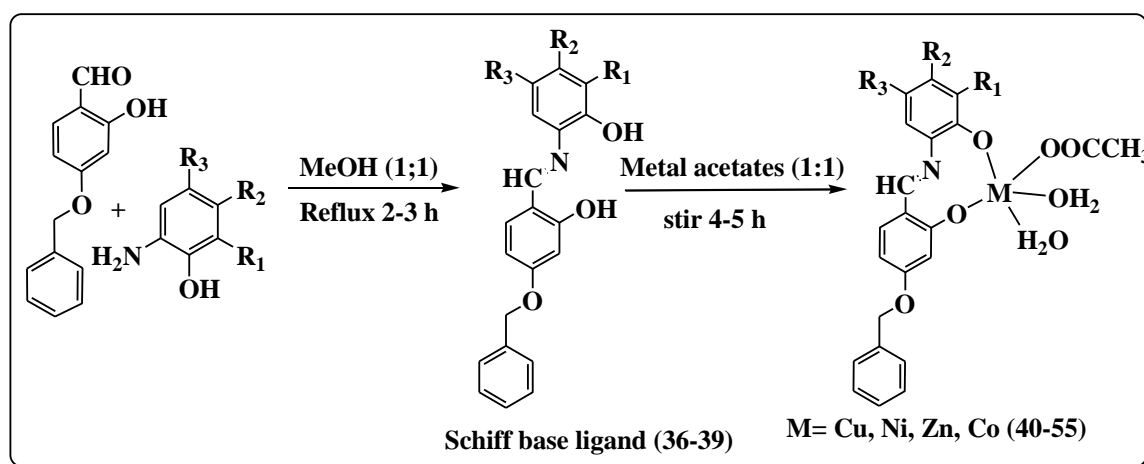
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**Scheme S1.** The structures of Schiff base ligand and their metal complexes [141].

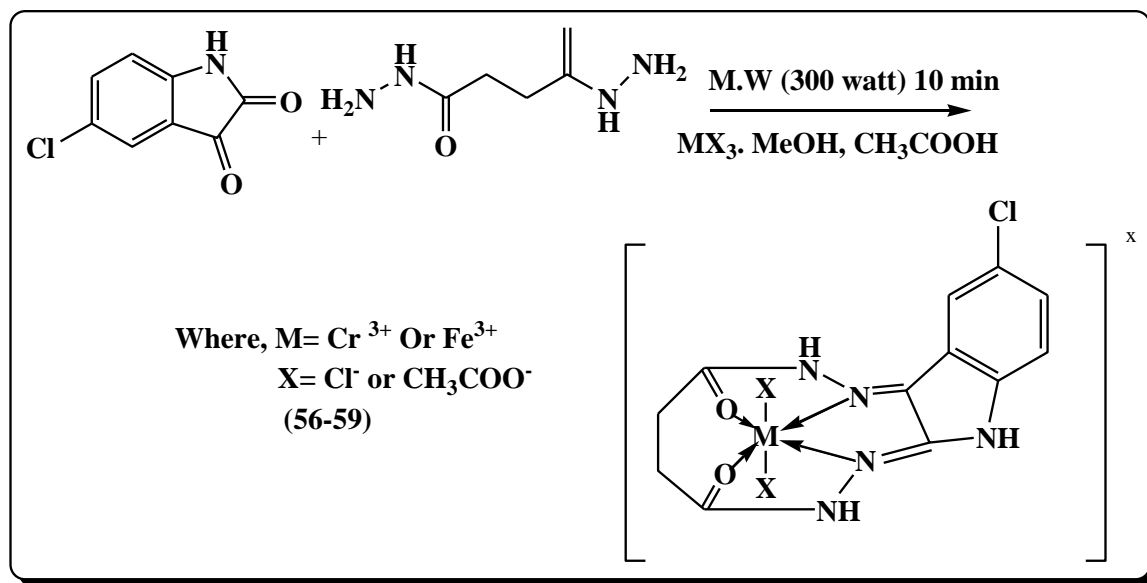


**Scheme S2.** The proposed reaction pathway for formation of the metal complex with the ligand [142].

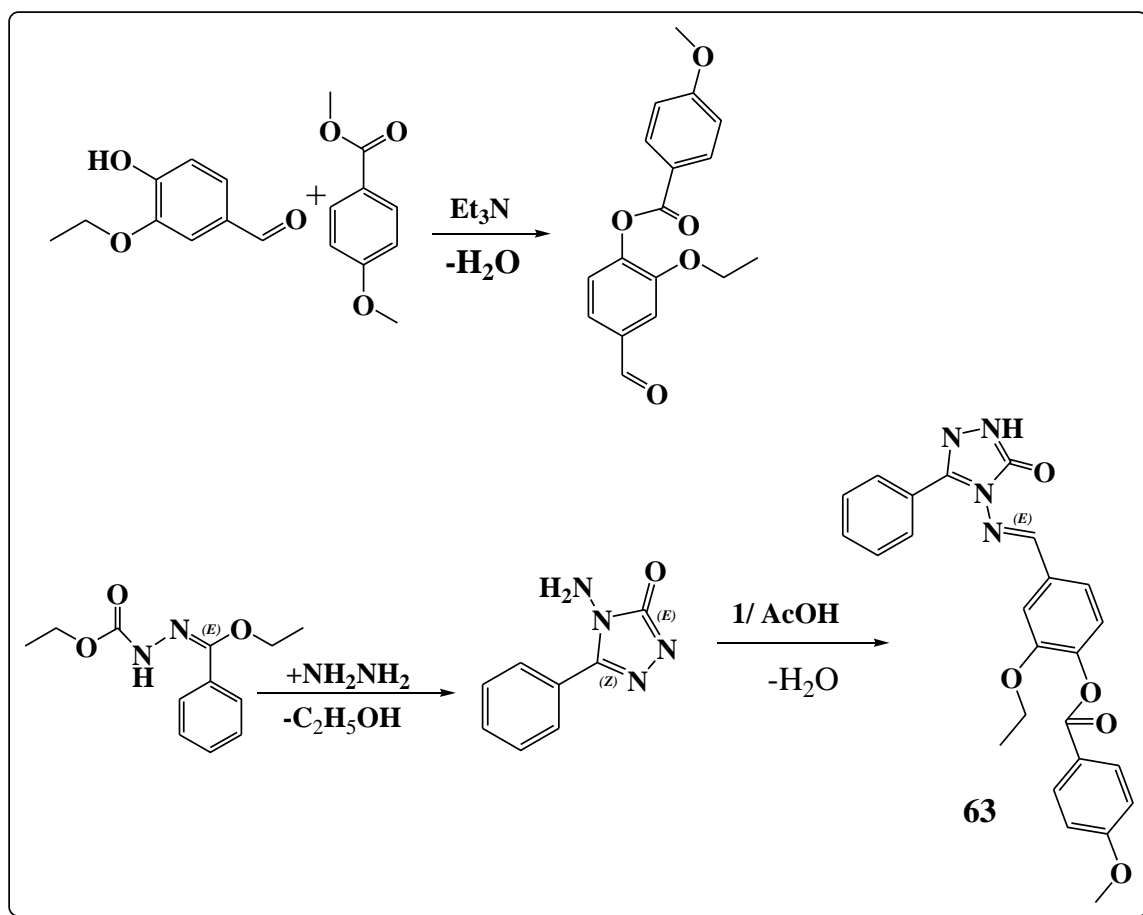


Ligands	BHAP	BHACM	BHACN	BHIMP
<b>R1</b>	H	Cl	Cl	H
<b>R2</b>	C <sub>6</sub> H <sub>5</sub>	CH <sub>3</sub>	H	H
<b>R3</b>	H	Cl	NO <sub>2</sub>	H

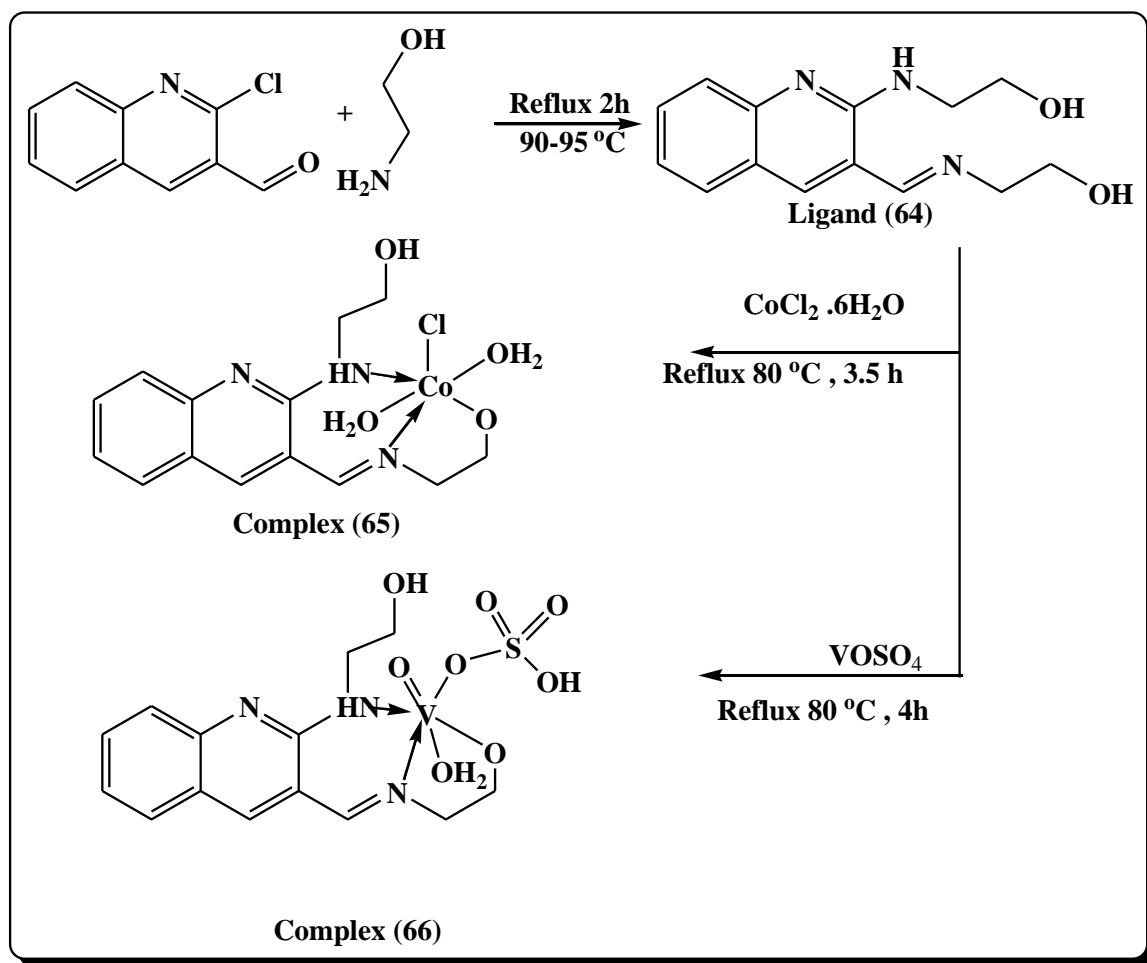
**Scheme S3.** For synthesis of Schiff base ligands (36-39) and their Co(II), Ni(II), Cu(II) and Zn(II) complexes (40-55) [145].



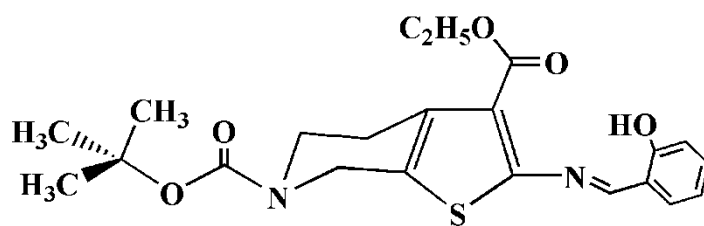
**Scheme S4.** Synthesis of the investigated heterocyclic metal complexes (56-59)[146].



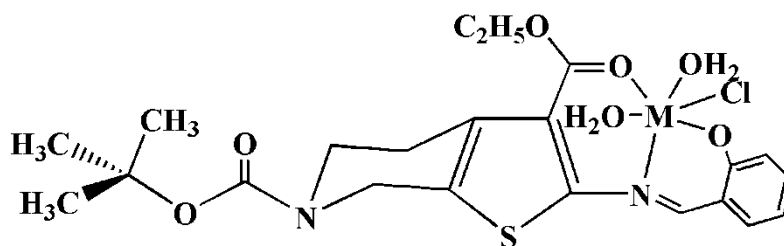
**Scheme S5.** Syntheses route of compound 63. [147]



**Scheme S6.** Synthesis Reaction Steps of the (a) Ligand (64) and (b) Co(II) (65) and V(IV) (66) Complexes of (*E*)-2-(((2-((2-Hydroxyethyl)amino)quinolin-3-yl)methylene)amino)ethan-1-ol [149].

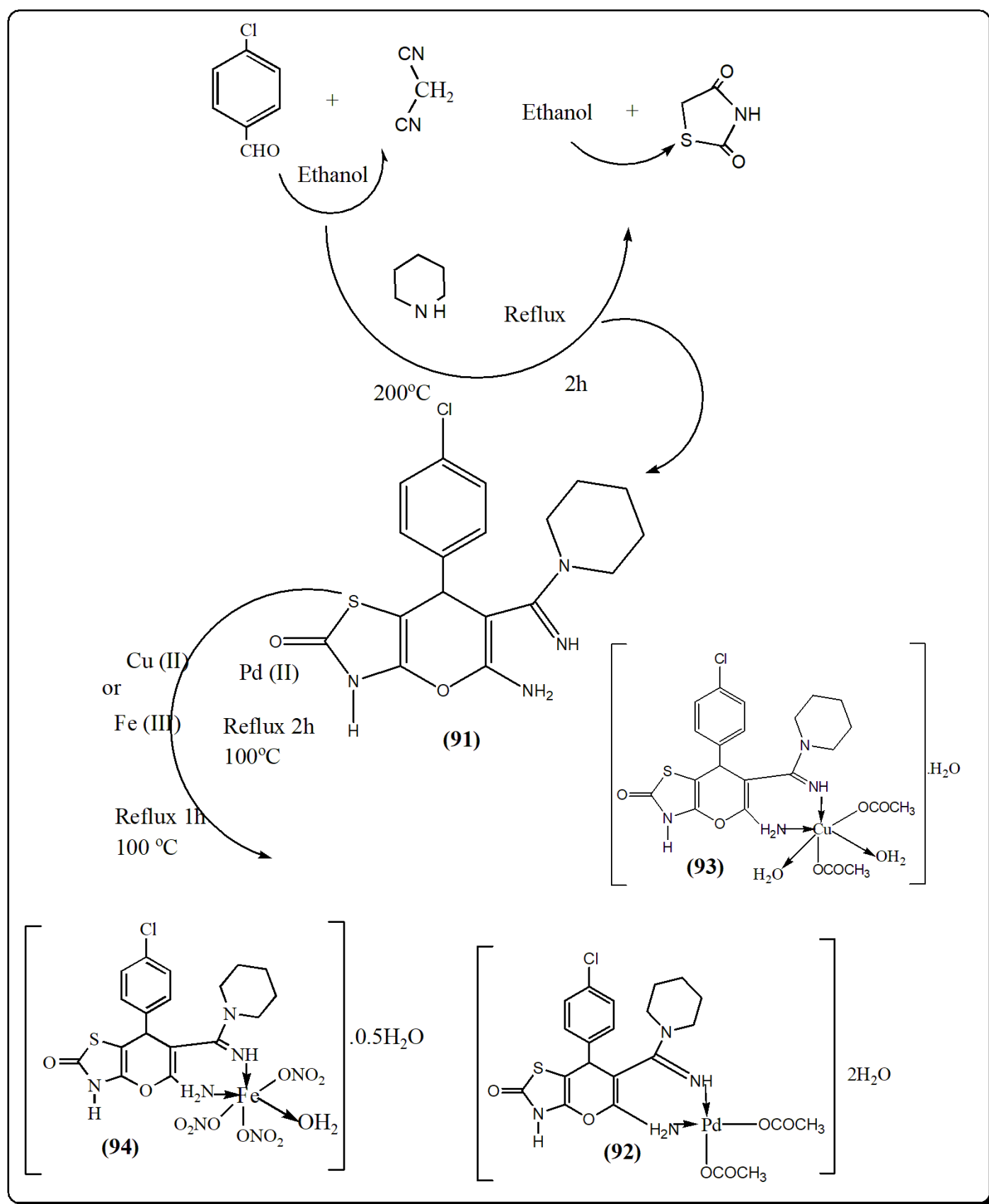


**TBHPC (87)**

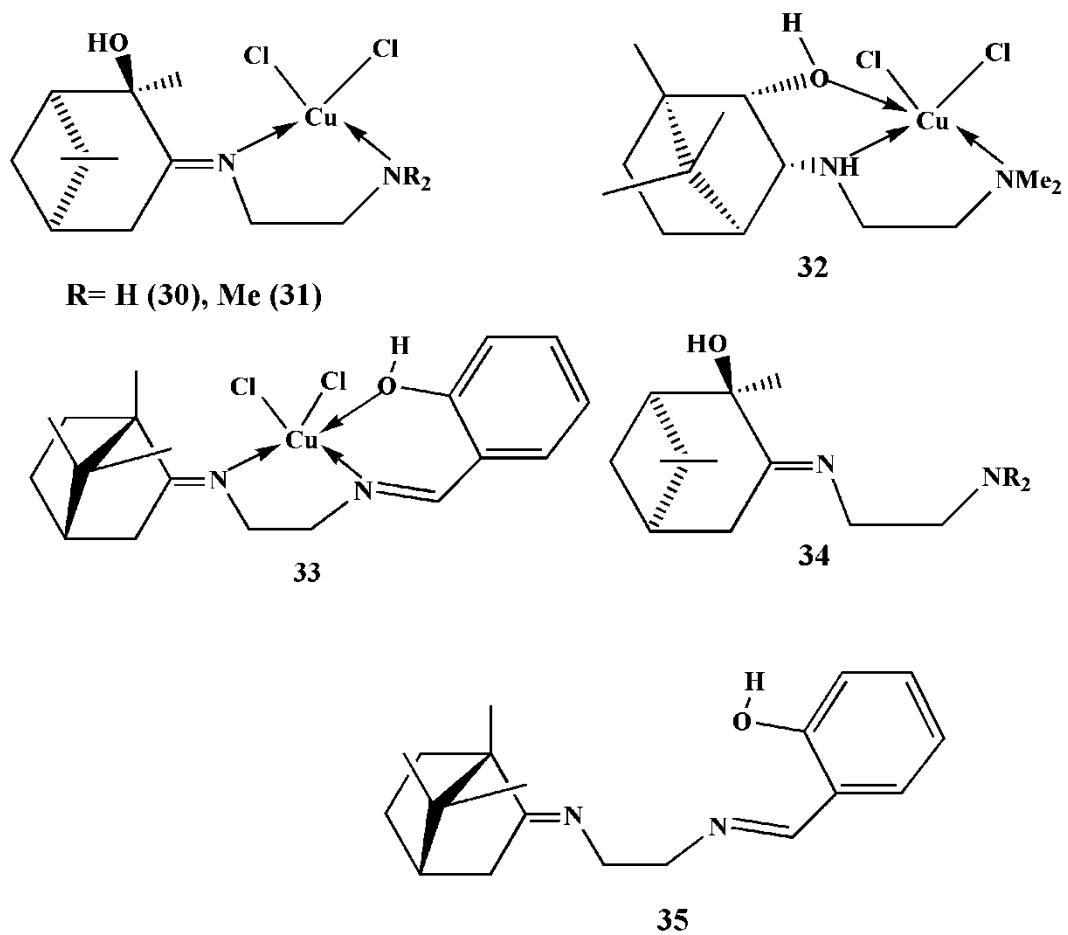


**M= Fe (II), Co(II) and Ni(II) (88-90)**

**Scheme S7 :** Suggested structures of the ligand and its Fe(II), Co(II), and Ni(II) metal complexes

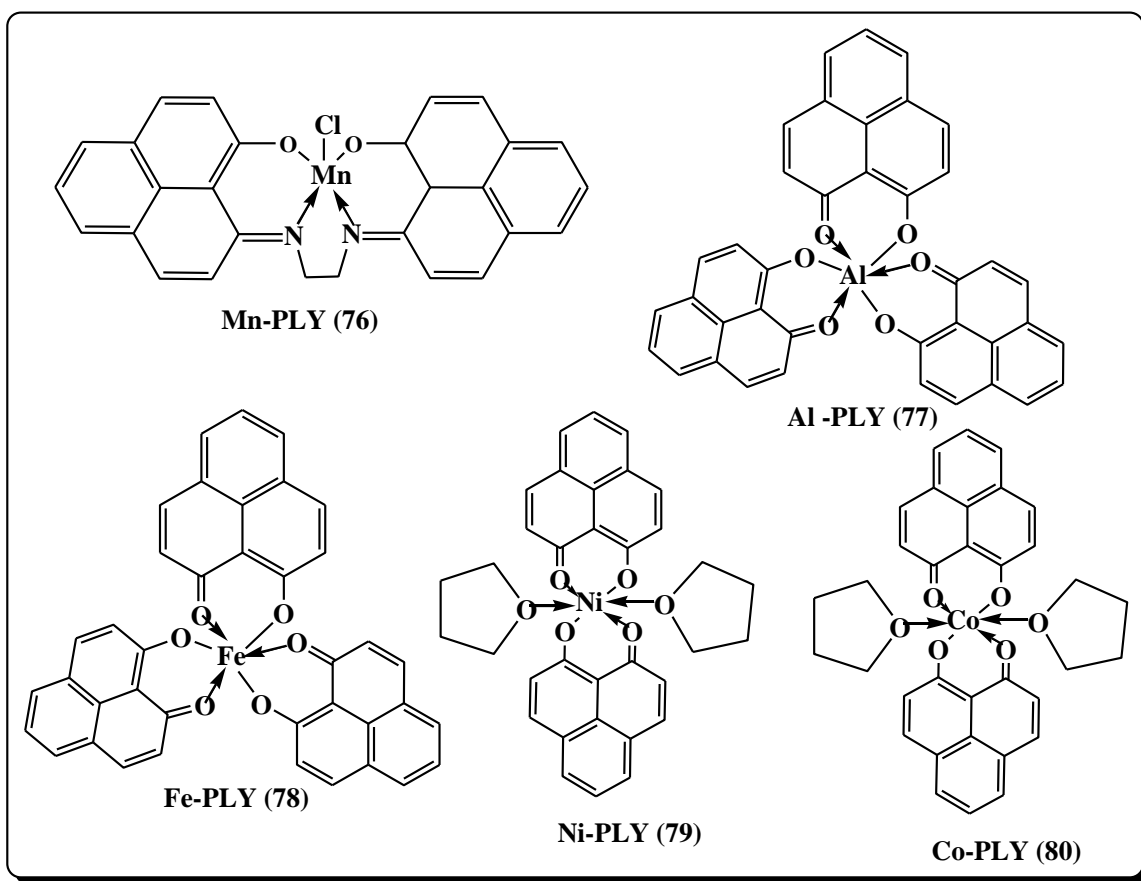


**Scheme S8:** Synthesis strategy of the ligand (**91**) and its complexes (**92-94**) [155]



**Fig. S1:** New copper complexes (30-33) with terpene derivatives of ethylenediamine (34- 35) [144].





**Fig. S2:** Structures of the metal-PLY complexes [151].