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Figure S2: NMR spectrum of H<sub>2</sub>L<sup>1</sup>



Figure S4 : Mass spectrum of Complex 1.



Figure S5: IR spectra of H<sub>2</sub>L<sup>1</sup>and Complex 1



**Figure S6:** Extended IR spectra of  $H_2L^1$  and Complex 1.



Figure S7: TG DTA Curve for complex 1.0.5H<sub>2</sub>O.



Figure S8: Mass spectrum of complex 1 in presence of DTBC.



Figure S9: Electronic spectra of  $I_3^-$  generated during blank experiment.