Supporting Information

One pot synthesis of two cobalt(III) Schiff base complexes with chelating pyridyltetrazolate and exploration of their bio-relevant catalytic activities

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Figure S1: Relative contributions to the Hirshfeld surface area for the various intermolecular contacts of complexes 1 and 2. Colour scheme: Blue = 1 and Red = 2.
Figure S2: Experimental and simulated powder XRD patterns of complex 1, confirming the purity of the bulk materials.
Figure S3: Experimental and simulated powder XRD patterns of complex 2, confirming the purity of the bulk materials.
Figure S4: Infrared spectrum of complex 1.
Figure S5: Infrared spectrum of complex 2.
Figure S6: Electronic spectrum of complex 1 in acetonitrile medium.
Figure S7: Electronic spectrum of complex 2 in acetonitrile medium.
Figure S8: Fluorescence spectrum of complex 1 in acetonitrile medium.
Figure S9: Fluorescence spectrum of complex 2 in acetonitrile medium.
Figure S10: Time dependent photoluminescence decay profile of complexes 1 and 2.
**Figure S11:** Michaelis-Menten plot (a), Lineweaver-Burk plot (b), Hanes plot (c) and Eadie-Hofstee plot (d) of complex 2 for catalytic oxidation of 3,5-DTBC in acetonitrile-methanol (2:1) mixture at room temperature.
Figure S12: Michaelis-Menten plot (a), Lineweaver-Burk plot (b), Hanes plot (c) and Eadie-Hofstee plot (d) of complex 2 for catalytic oxidation of OAPH in acetonitrile-methanol (2:1) mixture at room temperature.
Figure S13: ESI-MS positive spectrum of complex 1 in acetonitrile-methanol (2:1) mixture at room temperature.
Figure S14: ESI-MS positive spectrum of complex 2 in acetonitrile-methanol (2:1) mixture at room temperature.