**A Mononuclear Copper(II) Complex Containing Benzimidazole and Pyridyl Ligands: Synthesis, Characterization, and Antiproliferative Activity against Human Prostate Cancer Cell**

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**Figure S1**. BenzimCF3 ligand FT-IR Spectrum



**Figure S2.** Copper (II) complex FT-IR Spectrum



**Figure S3.** Single crystal x-ray structure of copper (II) complex



**Figure S4.** 1H-NMR spectrum of copper (II) complex



**Figure S5.** Fluorescence spectrum of copper (II) complex in DMSO at 298 K. (λex = 360 nm)