

A new family of 3D heterometallic 3d-4f organodisulfonate complexes based on the linkages of 2D $[\text{Ln}(\text{nds})(\text{H}_2\text{O})]^+$ layers and $[\text{Cu}(\text{ina})_2]^-$ chains

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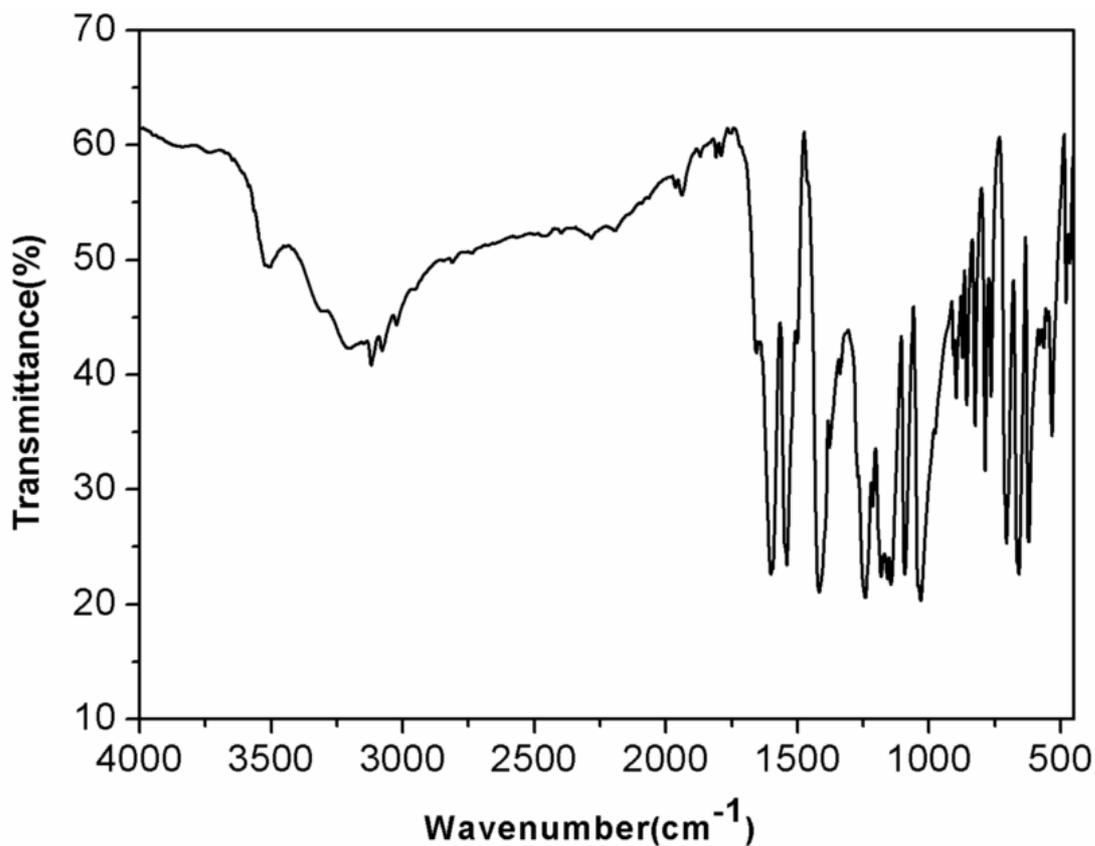


Fig. S1 IR spectrum of 1

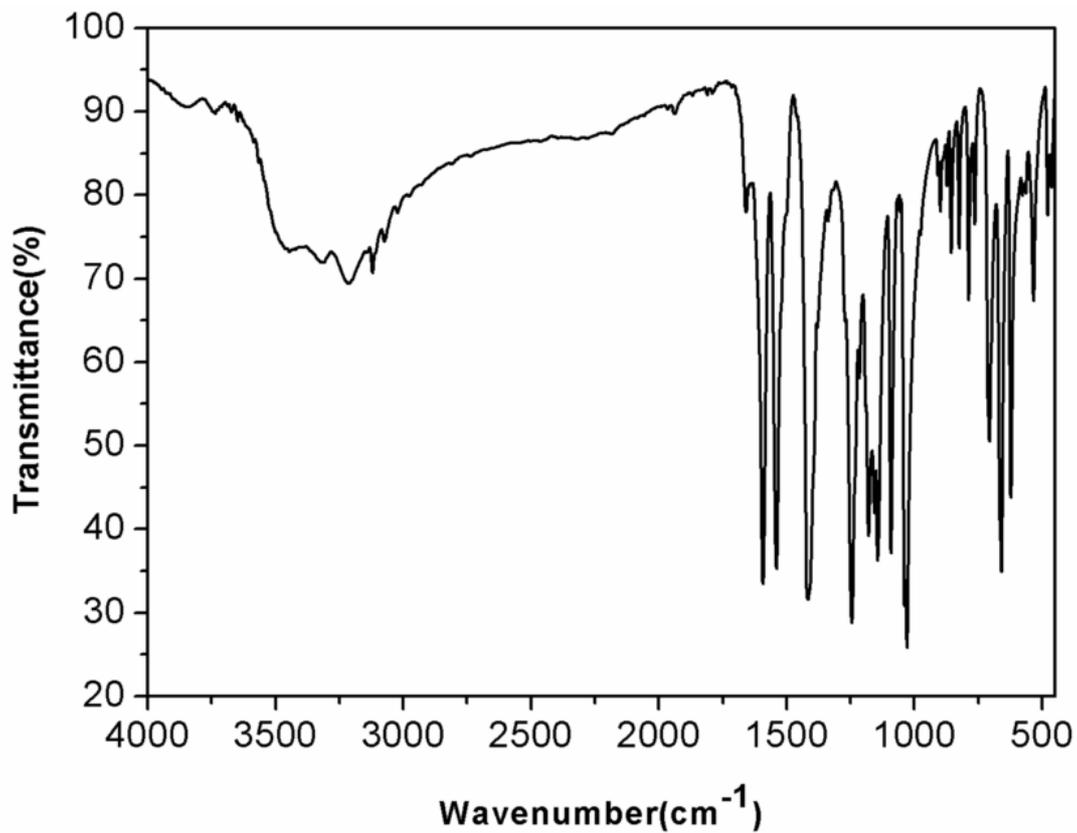


Fig. S2 IR spectrum of 2

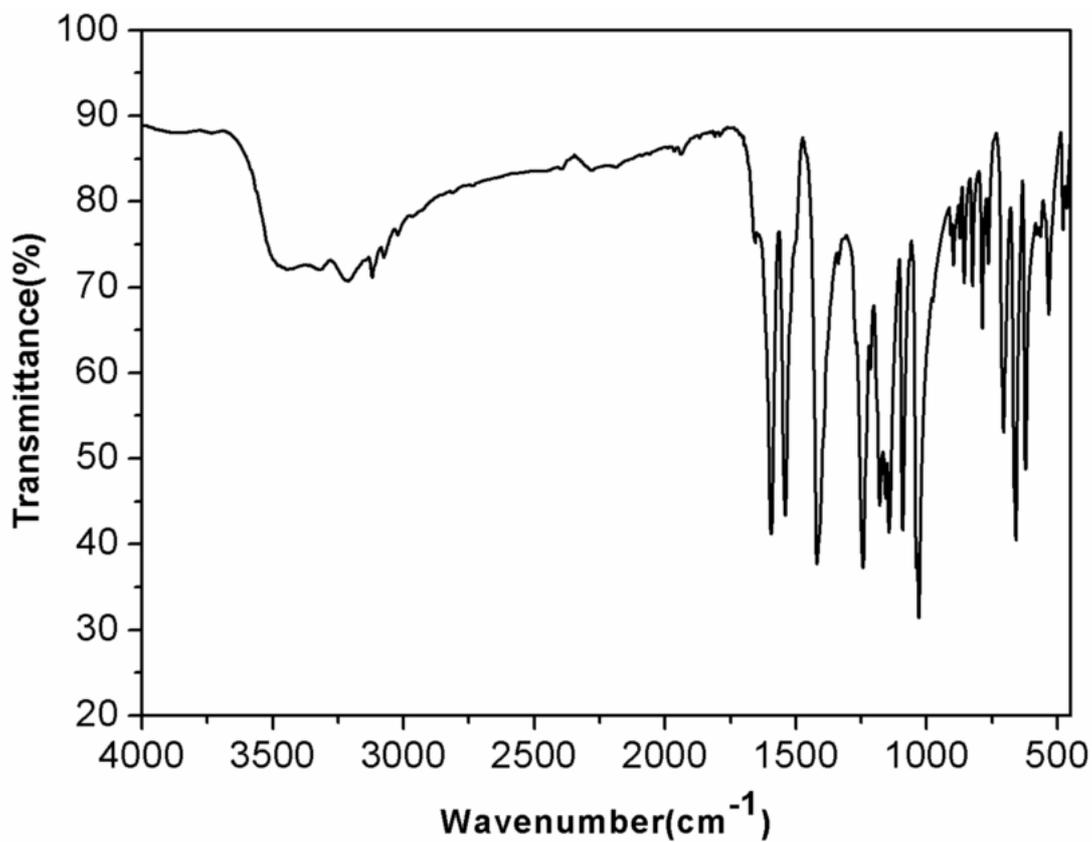


Fig. S3 IR spectrum of 3

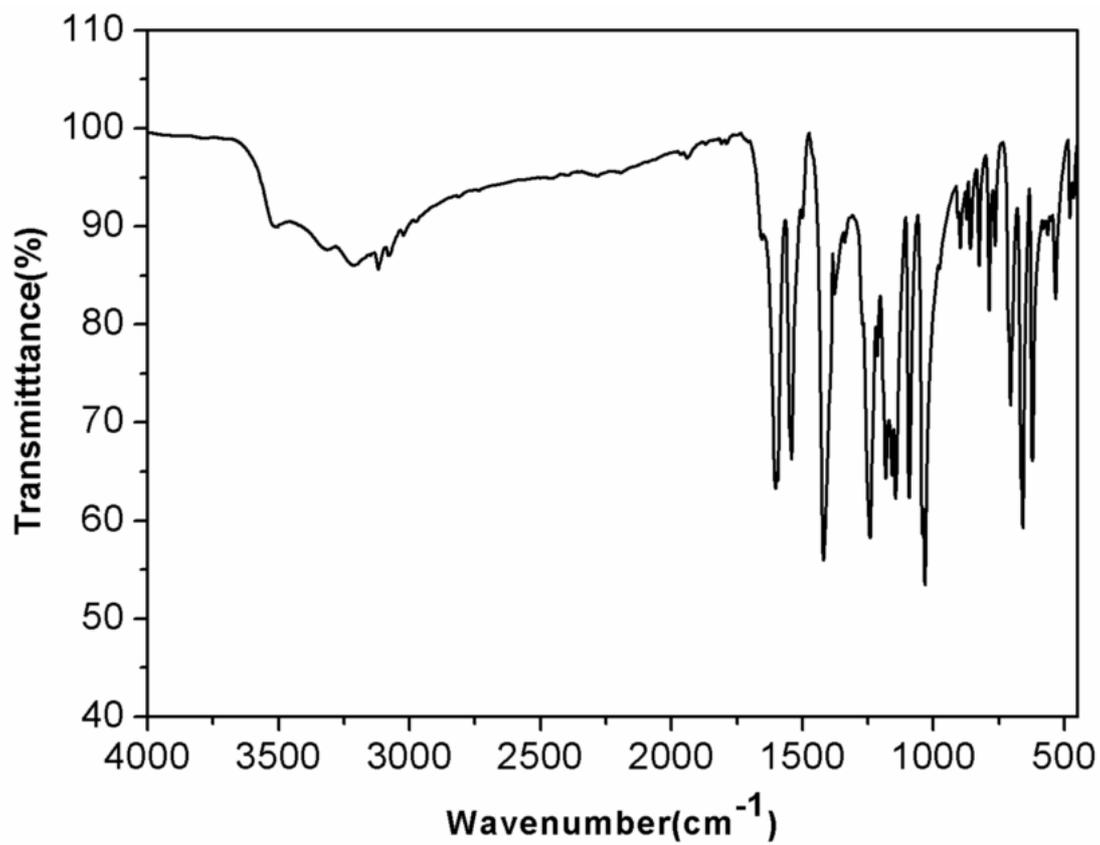


Fig. S4 IR spectrum of 4

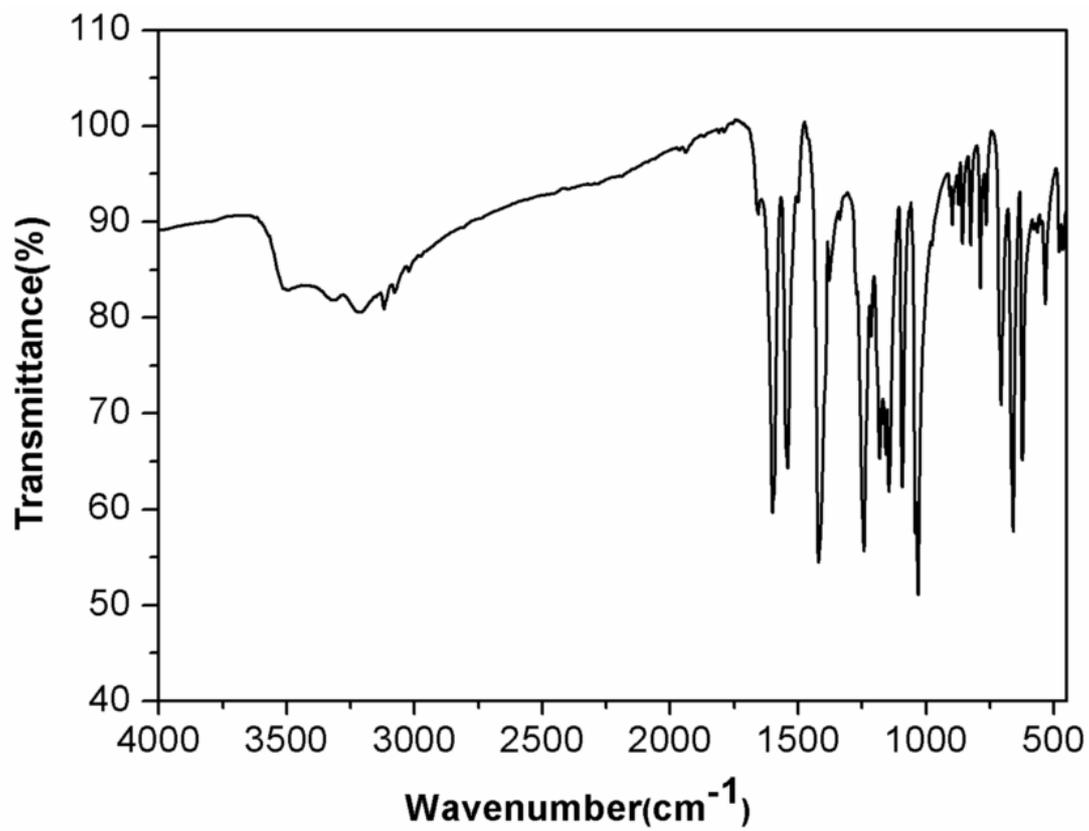


Fig. S5 IR spectrum of 5

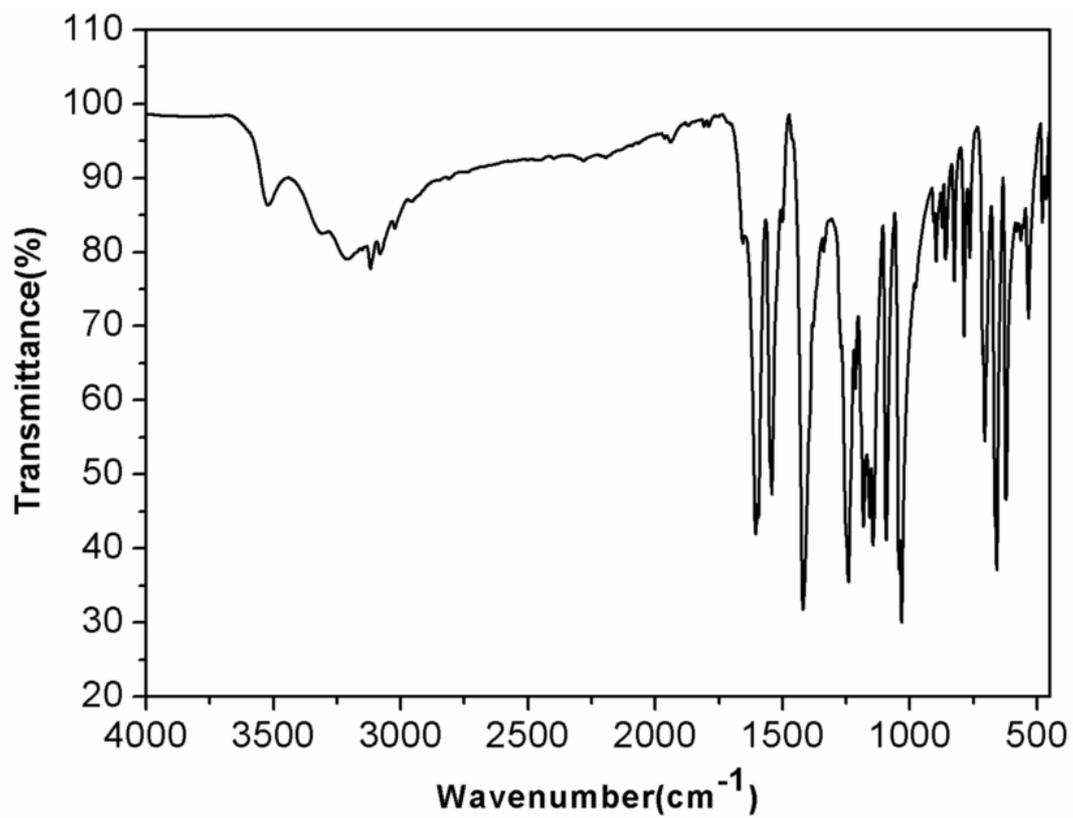


Fig. S6 IR spectrum of 6

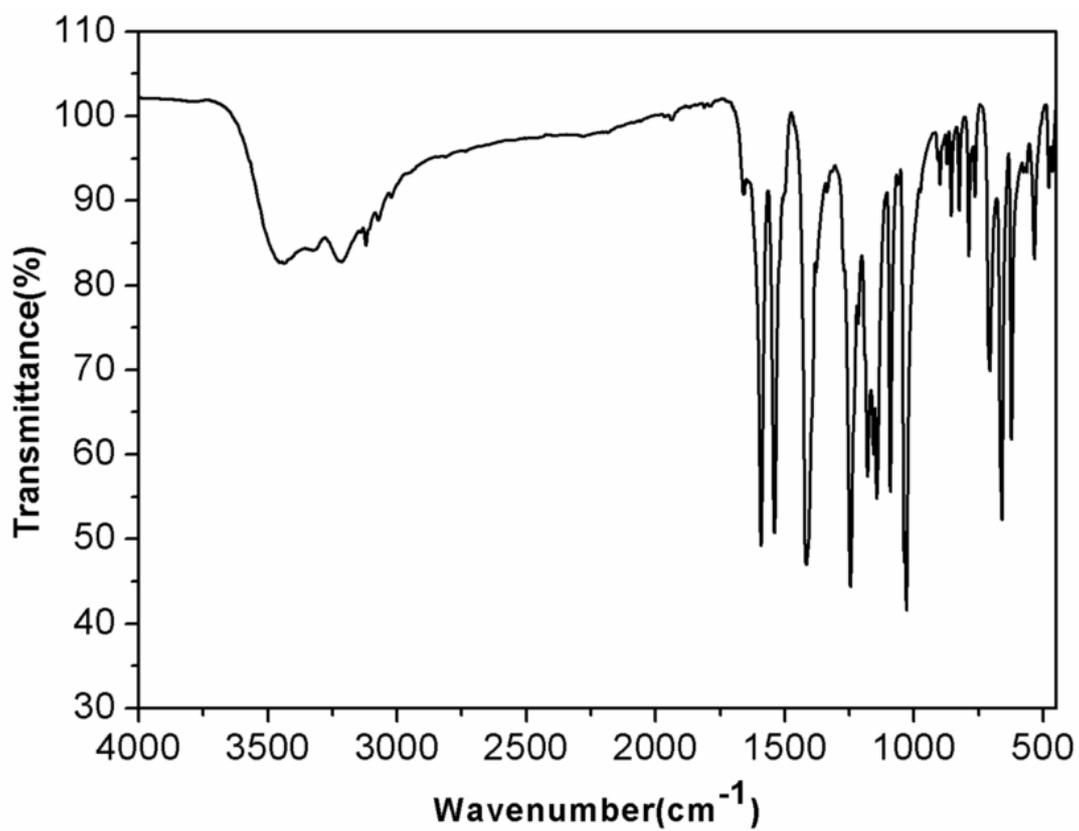


Fig. S7 IR spectrum of 7

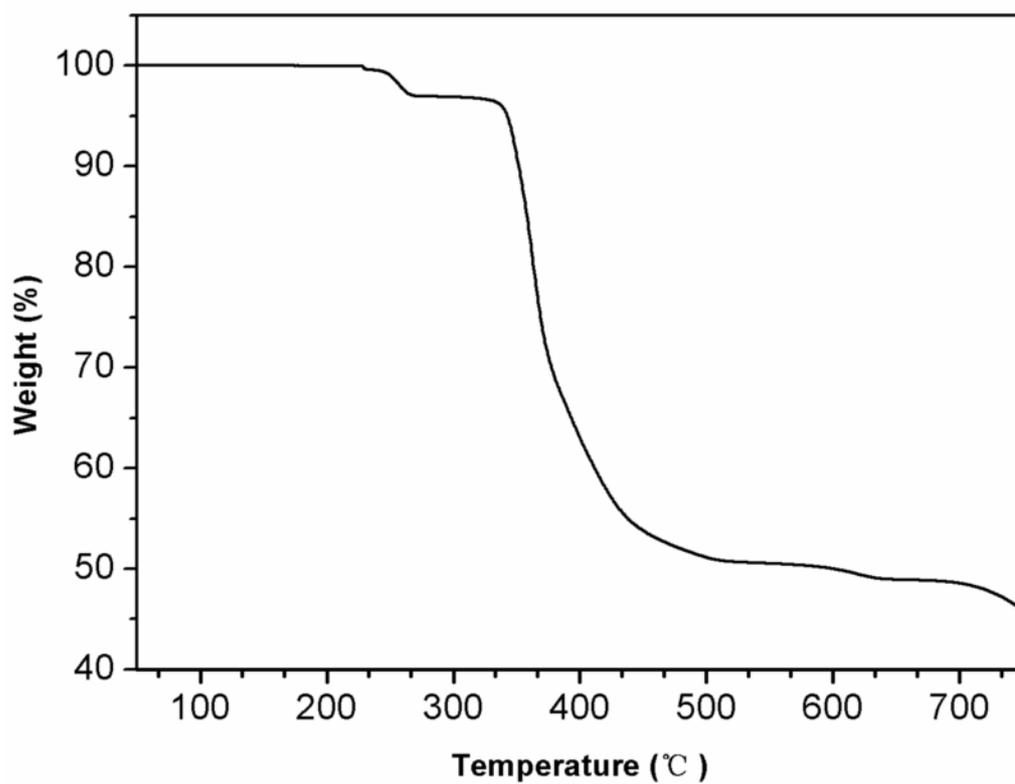


Fig. S8 TG curve of 1

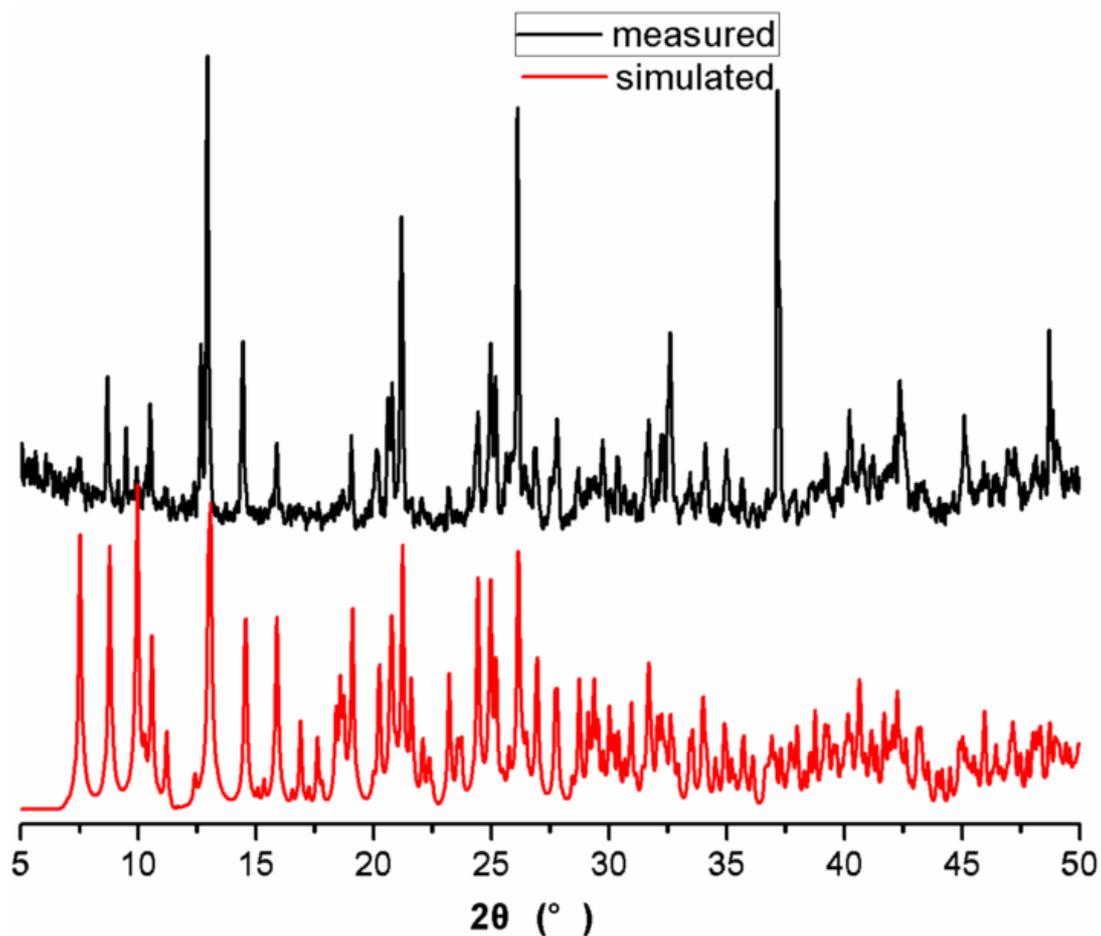


Fig. S9 (Top) The experimental PXRD pattern of complex 1 at room temperature.
(Bottom) The simulated PXRD pattern from single crystal X-ray data of complex 1.