Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting Information

Crystal structure and Magnetic property of Spin crossover complex $Fe^{II}(Ethyl\ Nicotinate)_2[Au^{I}(CN)_2]_2$

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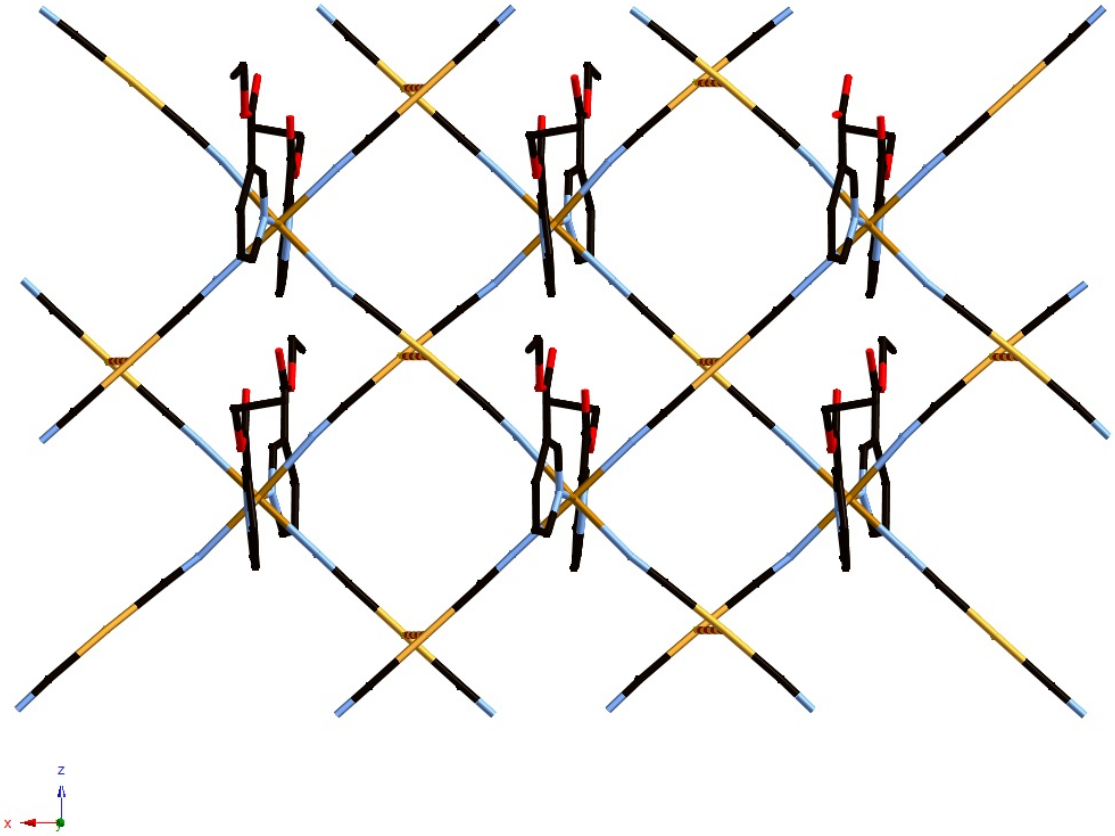

Figure 1S The cylinder drawing, 2-D structure of $Fe^{II}(Ethyl\ Nicotinate)_2[Au^{I}(CN)_2]_2$ **1** along [010] direction

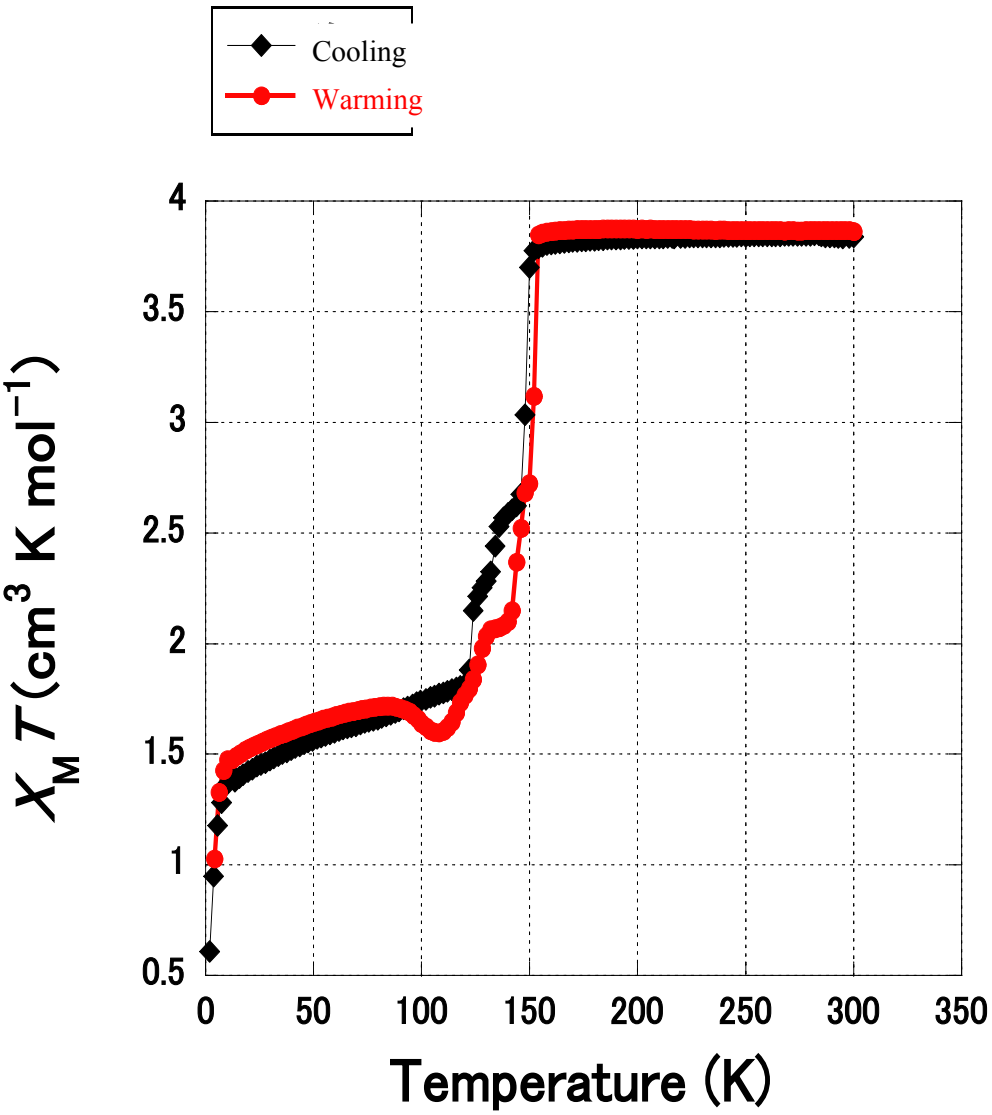

Figure 2S SQUID data for Fe^{II}(Ethyl Nicotinate)$_2$[Au^{I}(CN)$_2$]$_2$ **1** on 1K/min cooling.

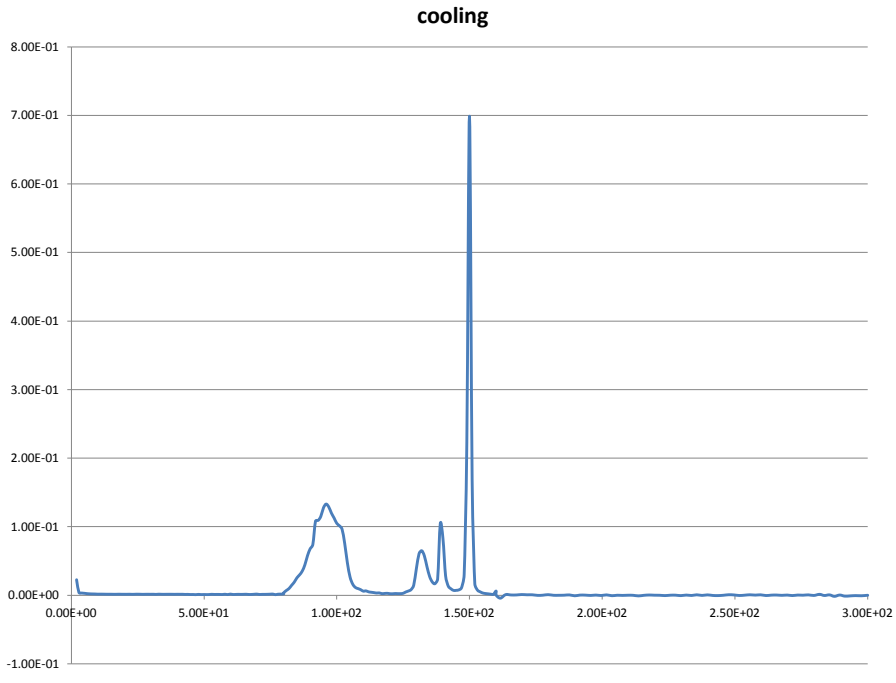

Figure 3S Differential calculus curve of the susceptibility for $Fe^{II}(Ethyl\ Nicotinate)_2[Au^{I}(CN)_2]_2$ **1**

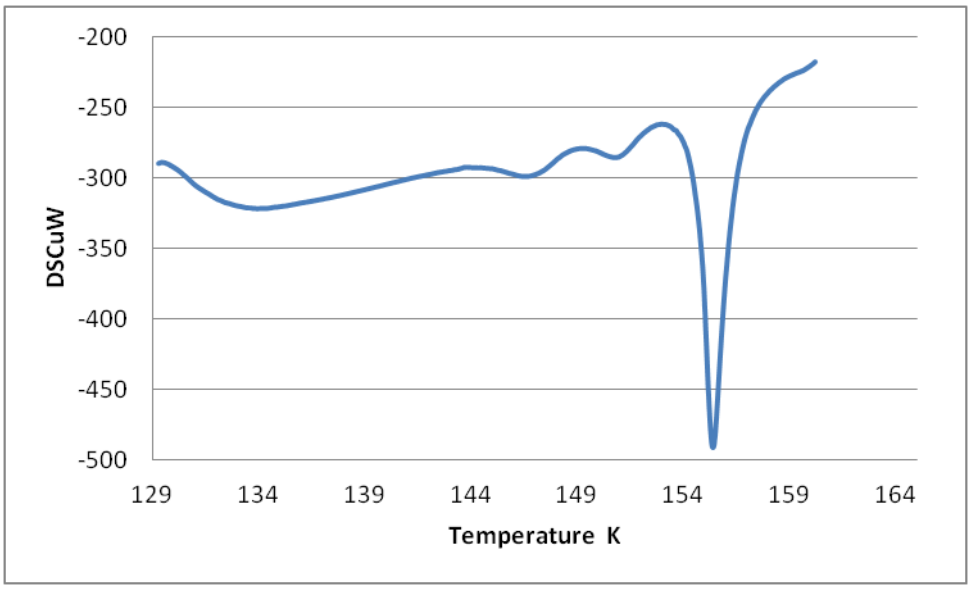

Figure 4S DSC data of $Fe^{II}(Ethyl\ Nicotinate)_2[Au^{I}(CN)_2]_2$ **1** on 5K/min heating. Since the range of temperatures in the DSC(SII DSC7020) can be above 123 K (= -150 ◦C), the fourth peak of SQUID was not able to be measured. The first, second, third peaks are found in the DSC measurements.