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
Figure 2S
Figure 3S
Figure 4S
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$(CN)_2$]$_2$ 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.