

## Supporting Information

### 2D europium coordination polymer as a regenerable fluorescence probe for efficiently detecting fipronil

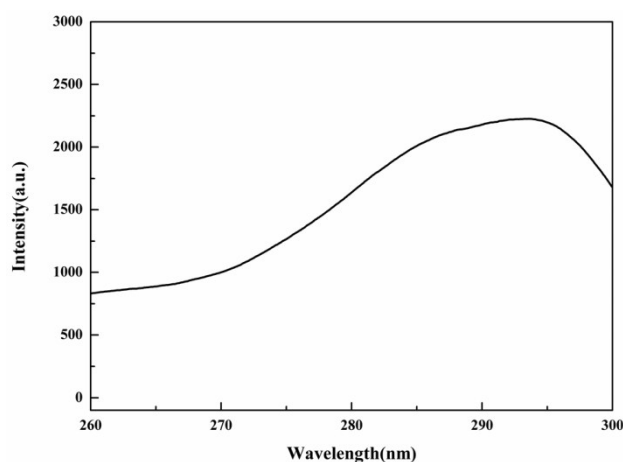
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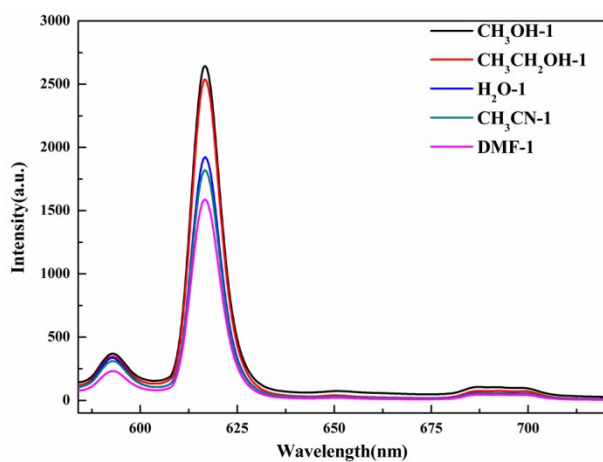
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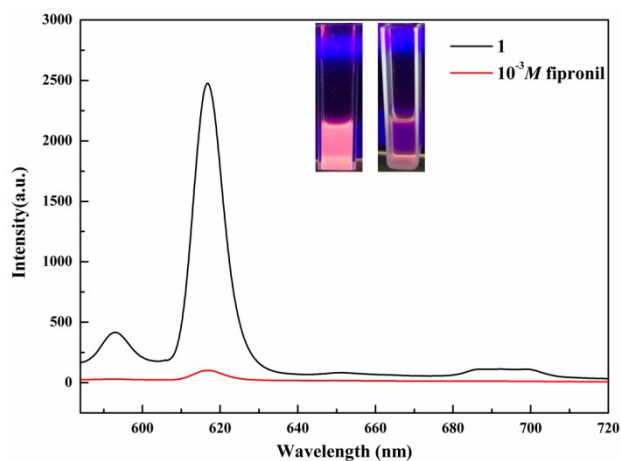
**Fig. S1** The excitation spectra of **1** ( $\lambda_{em}=617nm$ ).

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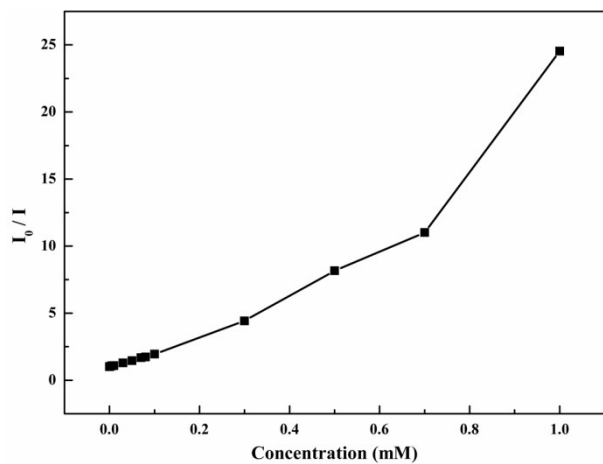
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**Fig. S2** Emission spectrum of **1** in different solvents.



**Fig. S3** Emission spectrum of **1** in methanol solution (black solid line) and  $10^{-3}$  M fipronil methanol solution (red solid line). Inset is the corresponding color photographs under irradiation of 254 nm UV light.



**Fig. S4** The  $I_0/I$  versus the concentration of fipronil for **1** (from 0 to 1 mM).