

## Supporting Information

### **A new FERT-based ratiometric probe for fluorescent and colorimetric analyses of adenosine 5'-triphosphate**

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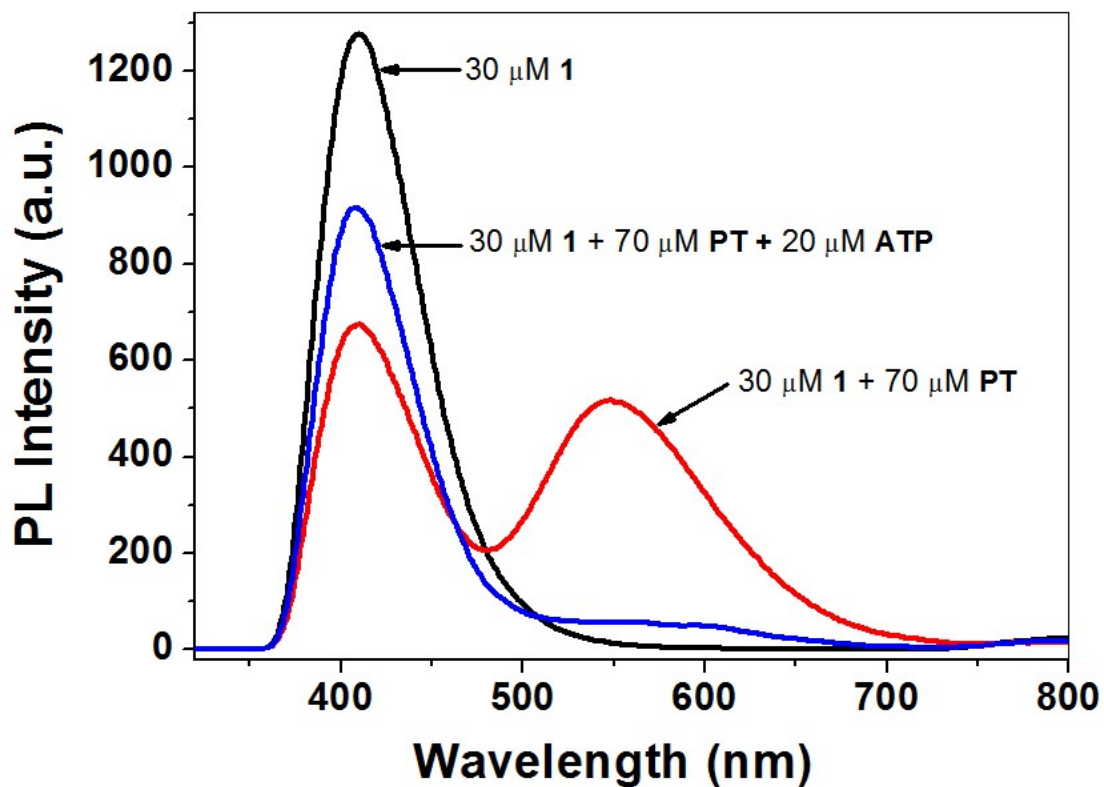


Fig. S1: Fluorescent spectra of compound 1, the mixed solution of PT and 1 in absence and presence of ATP in water (excited at 300 nm).

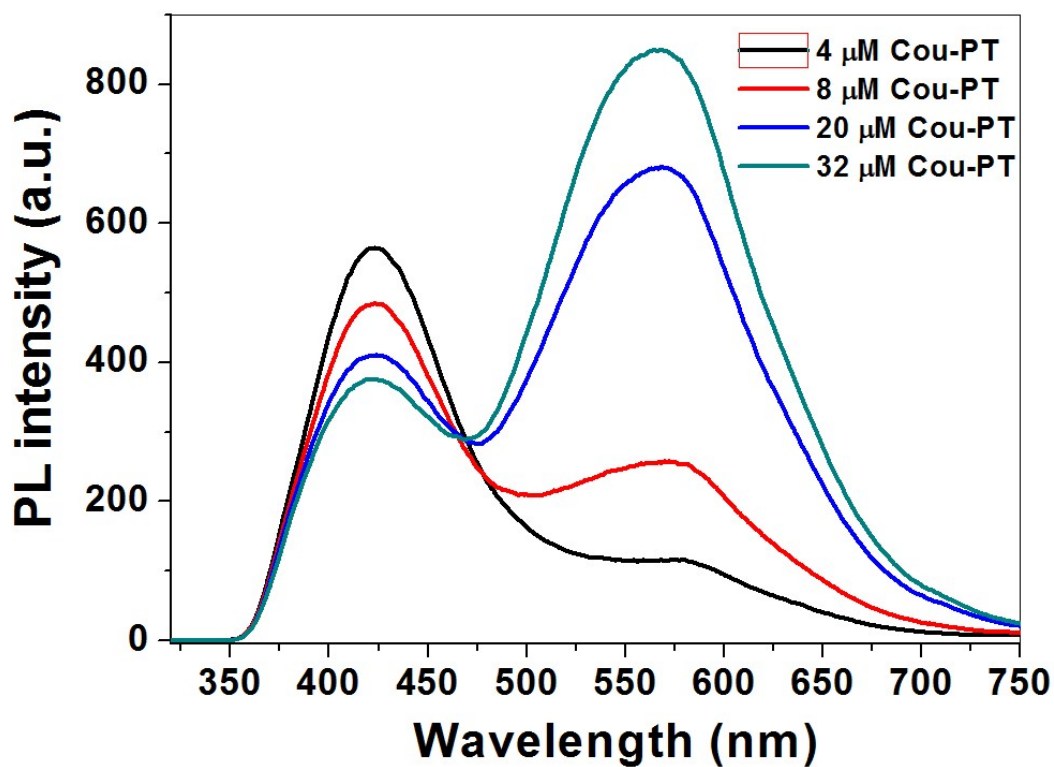
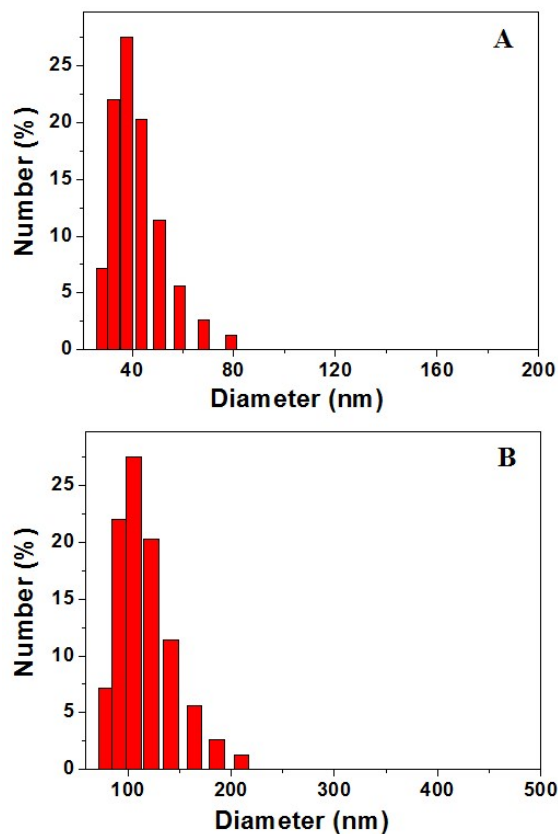
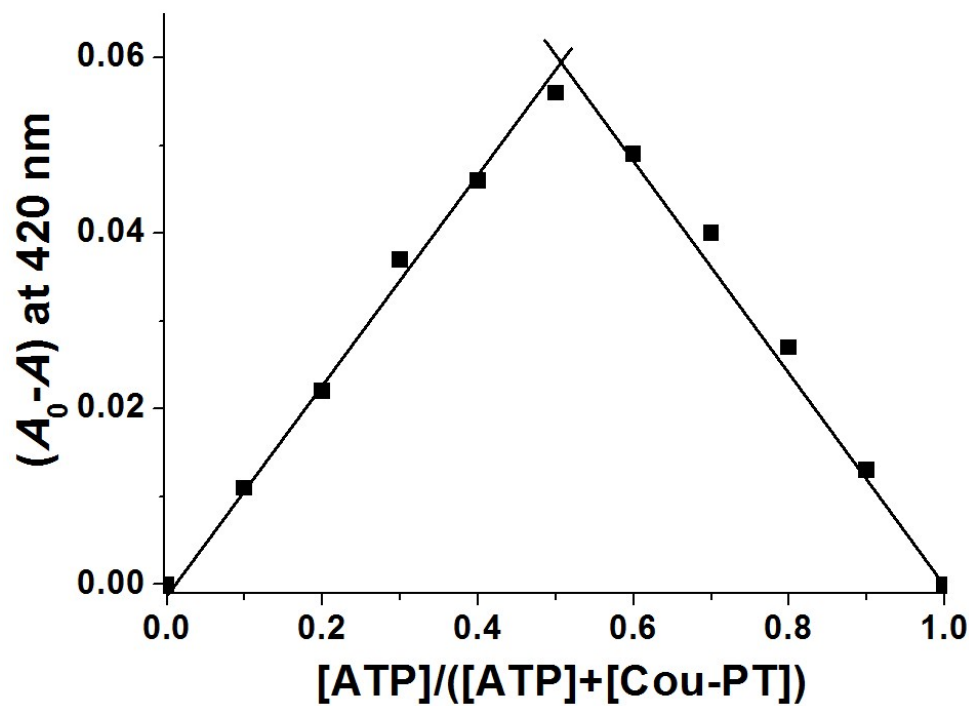


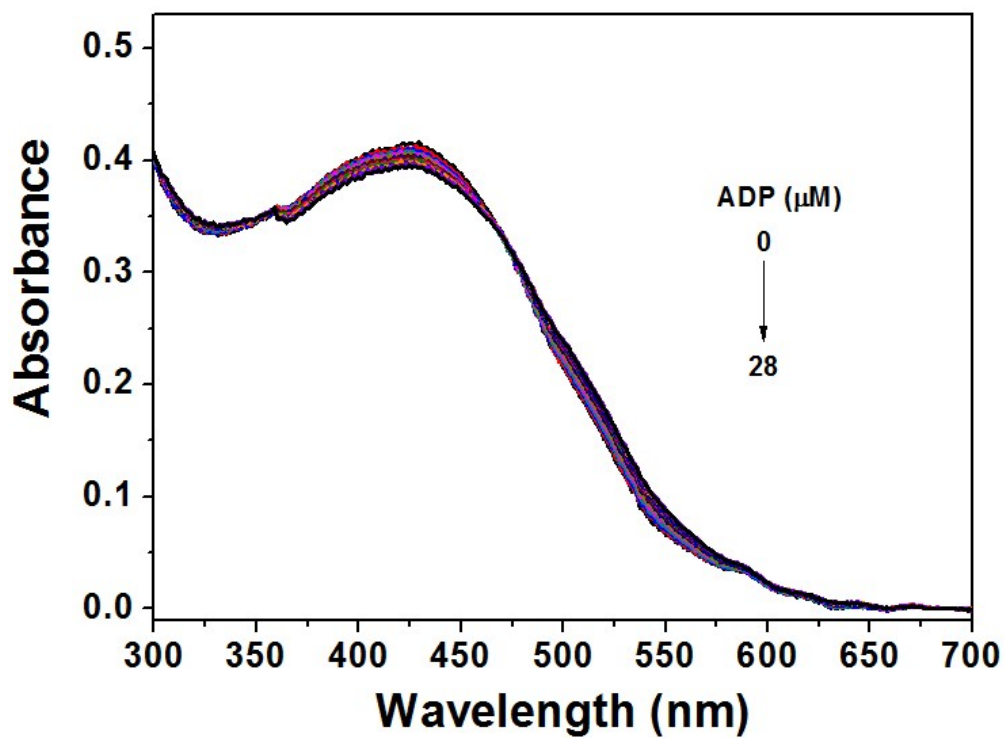
Fig. S2: Photoluminescent emission spectra of Cou-PT with various concentrations in water (excited at 300 nm).



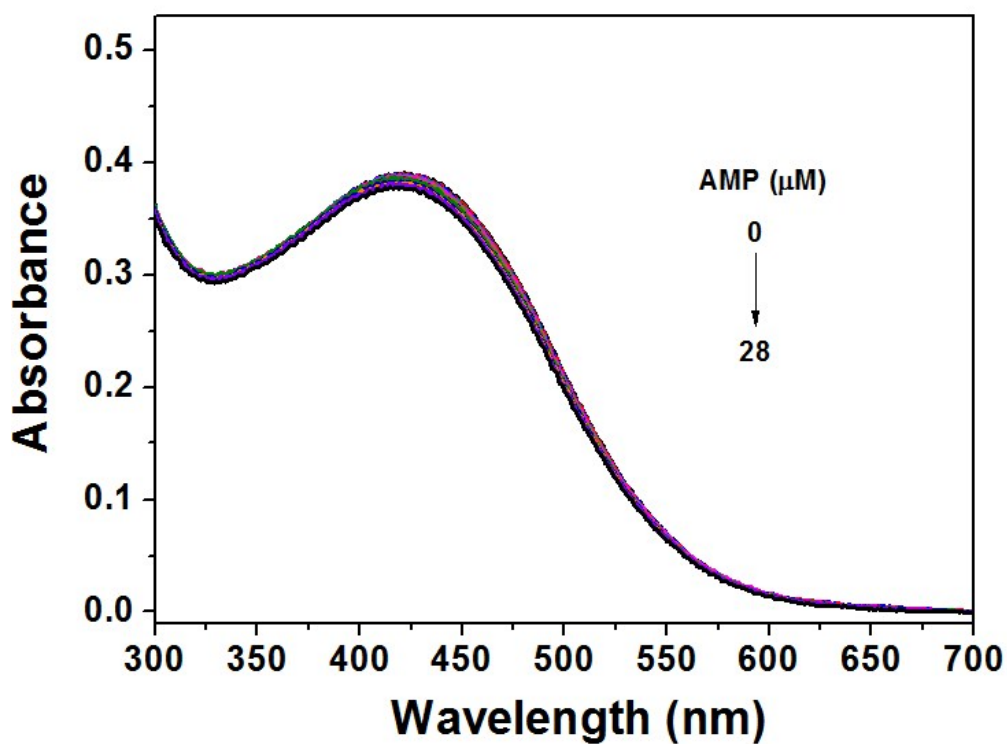
**Fig. S3:** Hydrodynamic diameter distribution of **Cou-PT** (A) and **Cou-PT/ATP** complex (B) in water. [Cou-PT] = 100  $\mu$ M, [ATP] = 30  $\mu$ M.



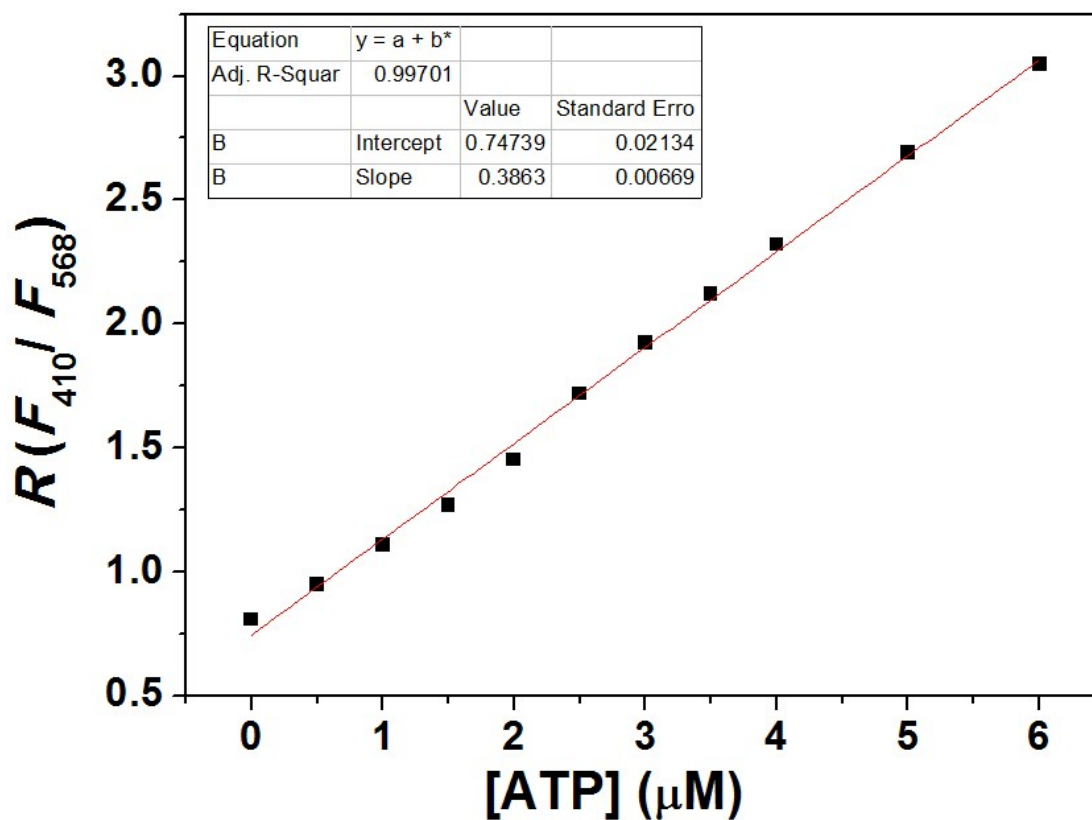
**Fig. S4:** Job's plot.



**Fig. S5:** Absorption spectra of **Cou-PT** (100  $\mu\text{M}$ ) in water in presence of ADP with concentrations ranging from 0 to 28  $\mu\text{M}$ .



**Fig. S6:** Absorption spectra of **Cou-PT** (100  $\mu\text{M}$ ) in water in presence of AMP with concentrations ranging from 0 to 28  $\mu\text{M}$ .



**Fig. S7:** Dependence of the emission intensity ratio  $R$  of the probe **Cou-PT** on the concentration of ATP for the determination of detection limit.