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## **Supplementary Information**

## A highly selective fluorescent sensor for Zn<sup>2+</sup> and Cu<sup>2+</sup> based on

## a diarylethene with a piperazine-linked amidoquinoline unit

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Fig. S1. Job plots for the determination of the stoichiometries of 10-Zn<sup>2+</sup> and 10-Cu<sup>2+</sup>: (A) 10-

Zn<sup>2+</sup>, (B) 10-Cu<sup>2+</sup>.



Fig. S2. <sup>1</sup>H NMR spectral changes of 1O induced by the stimulation of Zn<sup>2+</sup> (2.5 equiv) and Cu<sup>2+</sup>

(1.0 equiv) in DMSO-d<sub>6</sub> and CDCl<sub>3</sub>.



Fig. S3. ESI-MS spectral changes of 10 induced by the stimulation of  $Zn^{2+}$  (2.5 equiv) and  $Cu^{2+}$ 

(1.0 equiv).