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A simple amide fluorescent sensor based on quinoline for selective and sensitive recognition of zinc(II) and bioimaging in living cells

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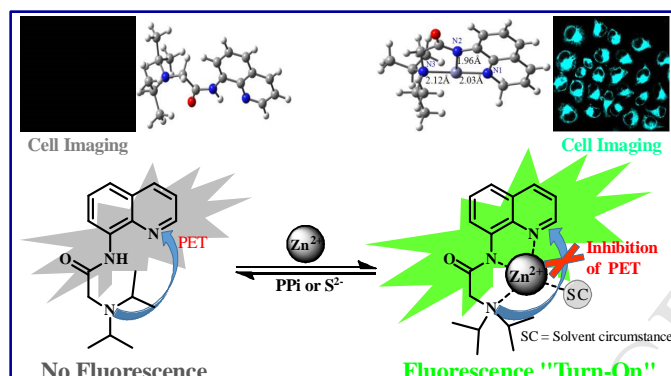
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Graphical Abstract



A simple quinoline-based derivative (AQPDA) was developed as a highly efficient fluorescent sensor for detecting Zn²⁺ with obvious fluorescence enhancement over other common metal ions, and the resulting complex AQPDA-Zn²⁺ was also determined to act as a cascade sensor for recognizing pyrophosphate (PPi) and S²⁻.

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