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Supporting information

Preparation novel triphenylamine-based fluorescent probe with AIE

active for high selectively detecting mercury (II) ion

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Figure S1. ¹H NMR spectra of TPA-CHO



Figure S2. ¹³C NMR spectra of TPA-CHO













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Figure S7. Fluorescence intensity of TPA-CHO and TPA-ME in DMF/H₂O ($f_w 0 - 99\%$) medium



Figure S8. UV-vis absorption spectroscopies of two fluorophores in different solvents with various polarity $(1 \times 10^{-5} \text{ mol} \cdot \text{L}^{-1})$. (a) TPA-CHO, (b) TPA-ME.



Figure.S9 (a) LC-MS spectra of reaction mixture TPA-ME and Hg²⁺. (b) LC-MS spectra of pure TPA-CHO. (c) LC-MS spectra of pure TPA-ME