Supporting Information

A Novel BODIPY-Schiff base-based Colorimetric and Fluorometric Dosimeter for Hg²⁺, Fe³⁺ and Au³⁺

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OHC
$$OHC$$

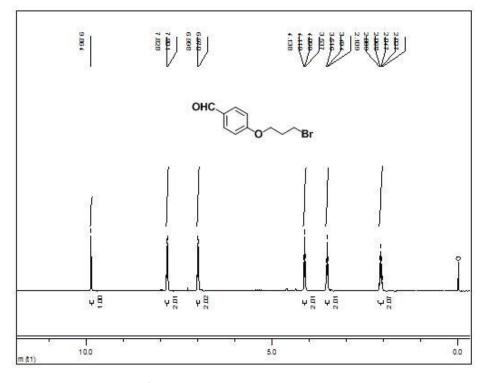


Fig. S1 ¹H NMR spectrum of compound CHO-Br

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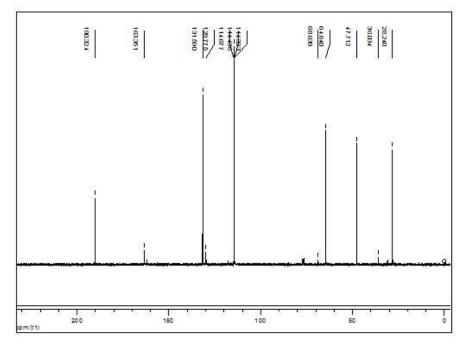


Fig. S2 ¹³C NMR spectrum of compound **CHO-Br**

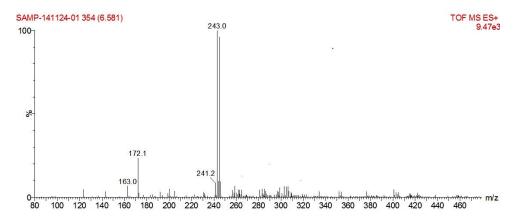


Fig. S3 Mass Spectrum of compound CHO-Br

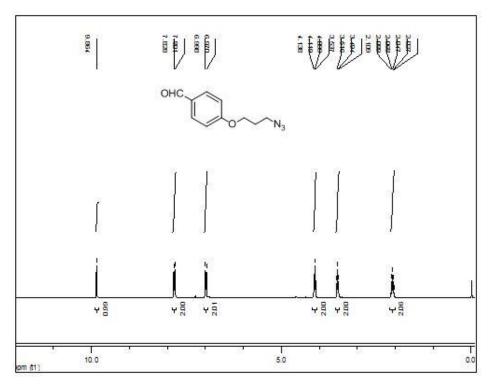


Fig. S4 1 H NMR spectrum of compound CHO-N₃

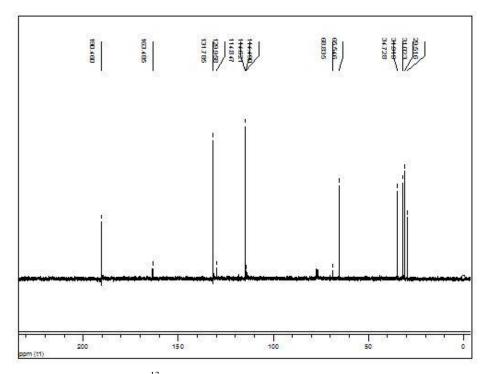


Fig. S5 13 C NMR spectrum of compound CHO-N₃

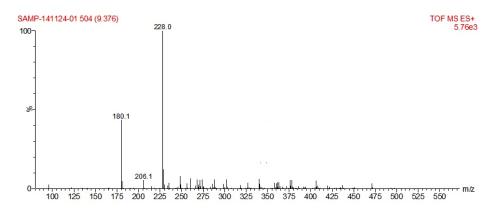


Fig. S6 Mass Spectrum of compound CHO-N₃

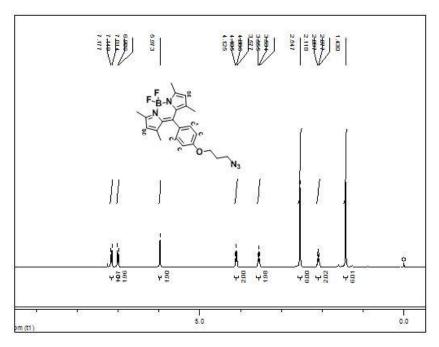


Fig. S7 1 H NMR spectrum of compound BODIPY-1

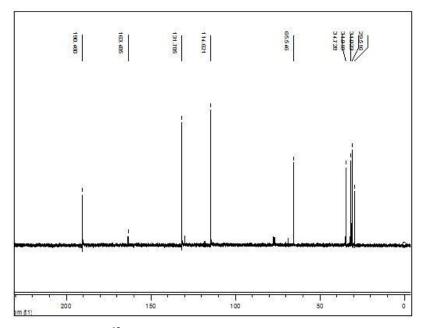


Fig. S8 ¹³C NMR spectrum of compound **BODIPY-1**

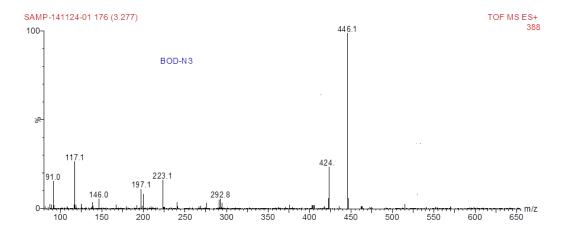


Fig. S9 Mass Spectrum of compound BODIPY-1

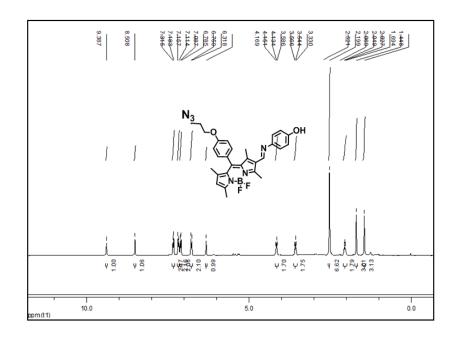


Fig. S10 ¹H NMR spectrum of compound BODIPY-OH

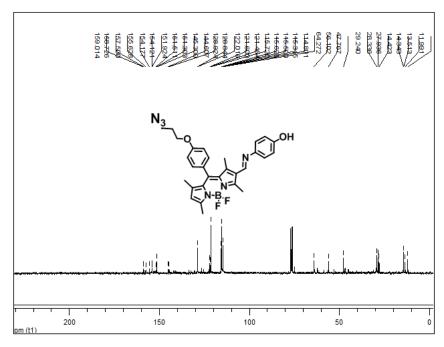


Fig. S11 13 C NMR spectrum of compound BODIPY-OH

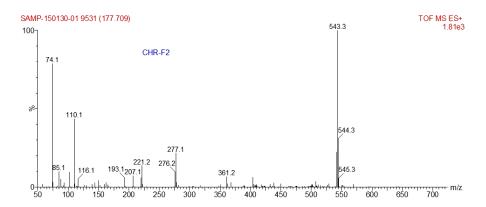


Fig. S12 Mass Spectrum of compound BODIPY-OH

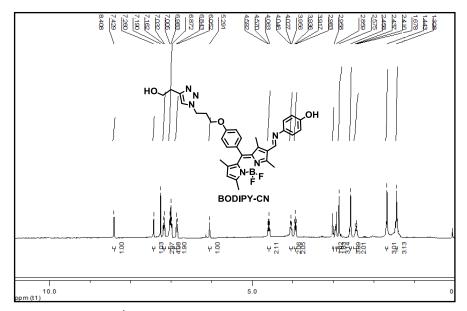


Fig. S13 ¹H NMR spectrum of compound BODIPY-TRIA

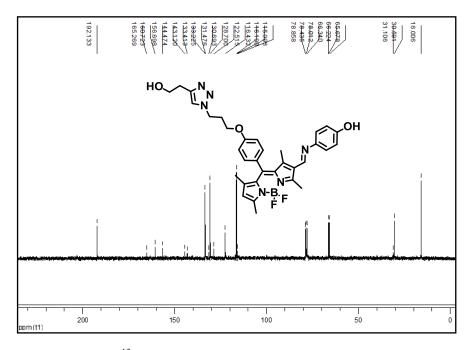


Fig. S14 ¹³C NMR spectrum of compound BODIPY-TRIA

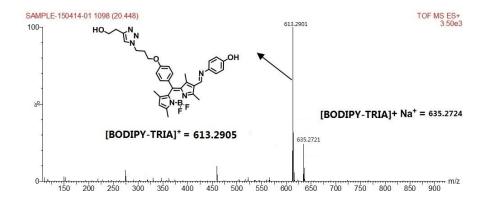


Fig. S15 Mass Spectrum of compound BODIPY-TRIA

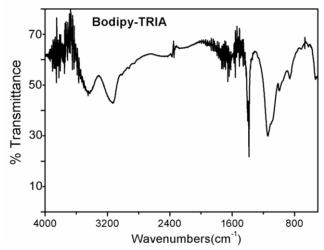


Fig. S16 FTIR spectra of compound BODIPY-TRIA

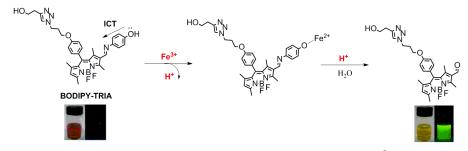


Fig. S17 The possible mechanism of BODIPY-TRIA toward ${\rm Fe^{3+}}$ in THF.