

Electronic Supplementary Information

A 4,5-quinolimide-based fluorescent sensor for the turn-on detection of Cd²⁺ with live-cell imaging

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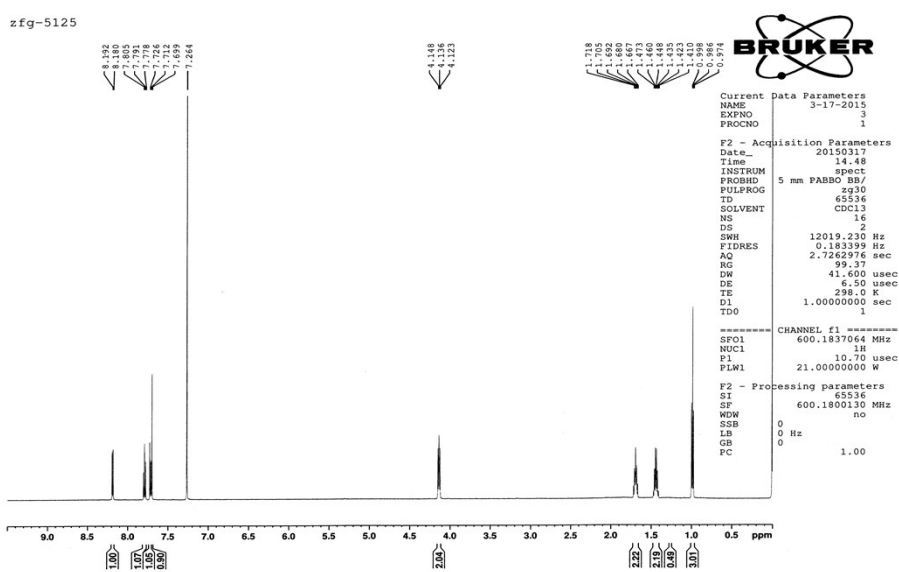


Fig. S1. ¹H NMR (CDCl₃, 600 MHz) spectrum of **1**.

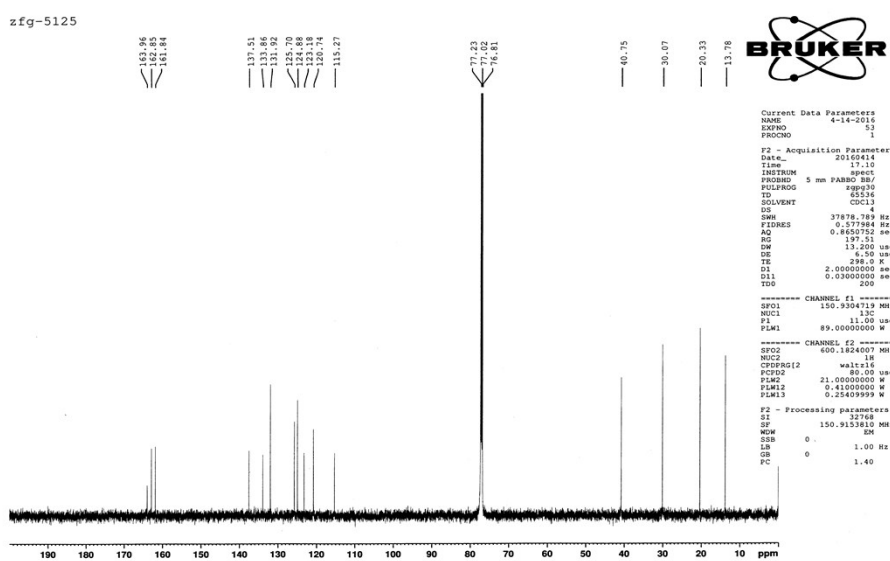


Fig. S2. ¹³C NMR (CDCl₃, 150 MHz) spectrum of **1**.

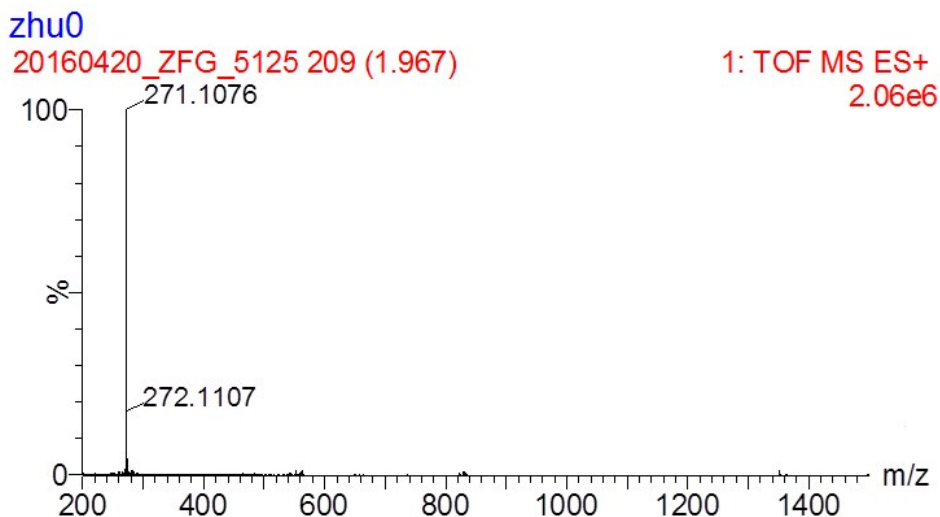


Fig. S3. Mass spectrum of 1.

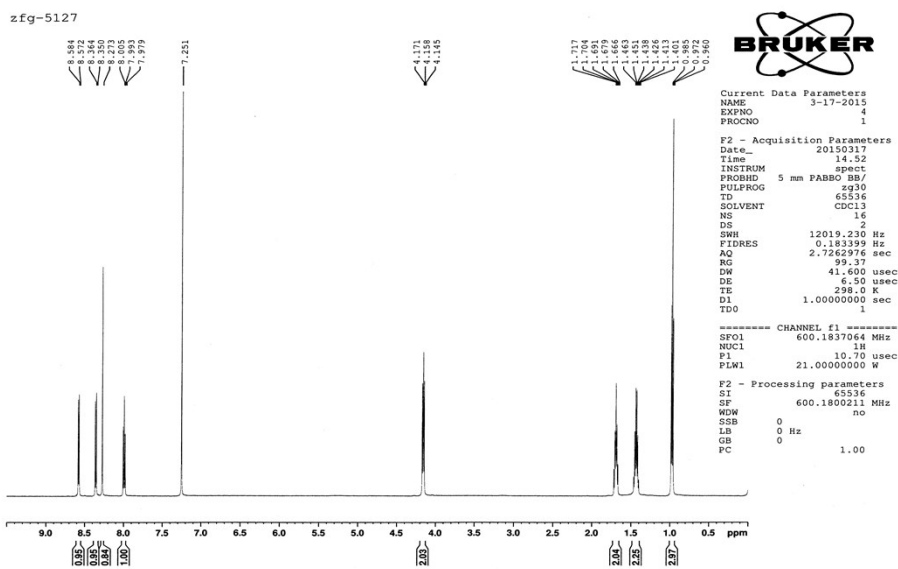


Fig. S4. ¹H NMR (CDCl₃, 600 MHz) spectrum of 2.

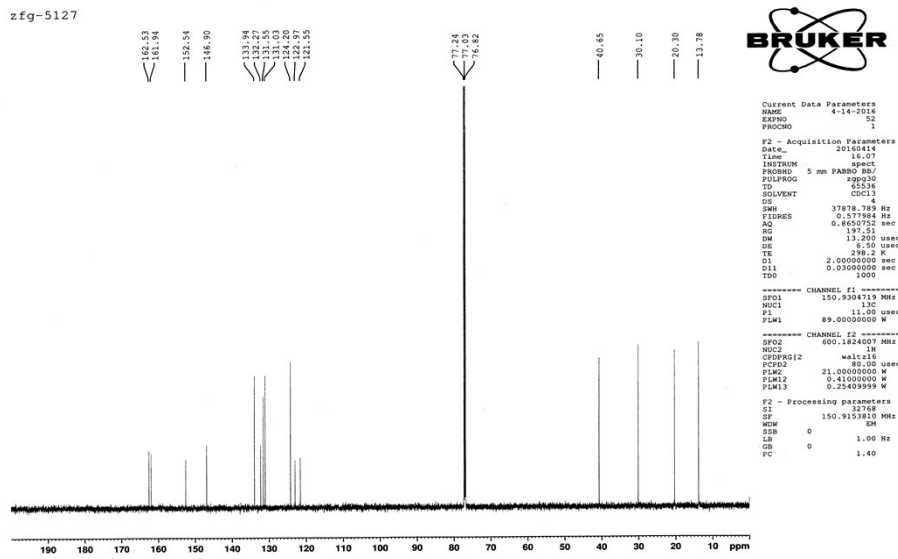


Fig. S5. ^{13}C NMR (CDCl_3 , 150 MHz) spectrum of **2**.

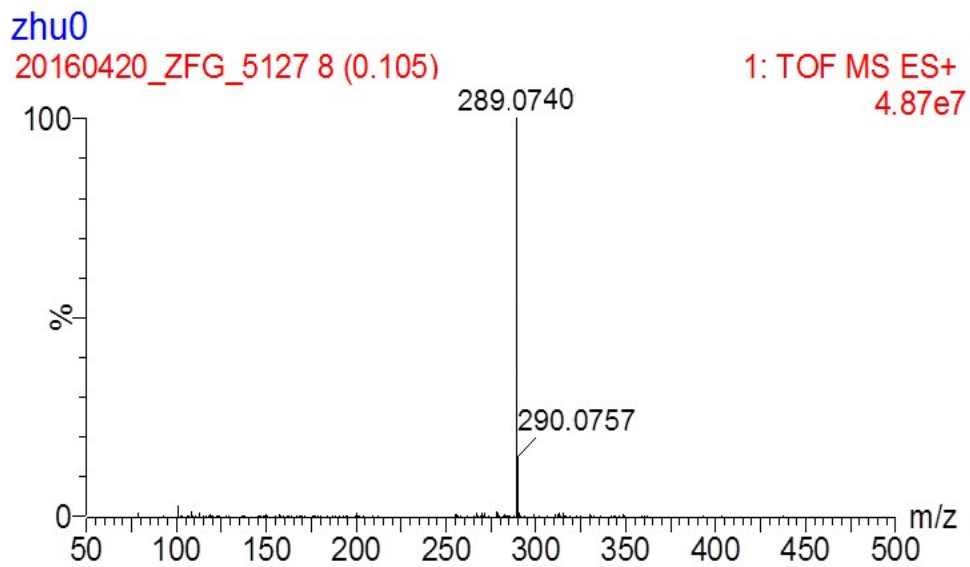


Fig. S6. Mass spectrum of **2**.

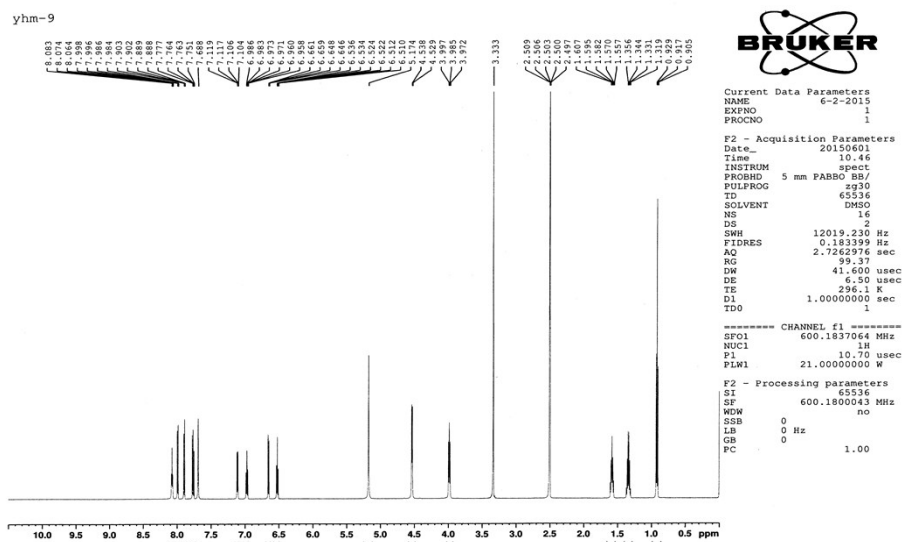


Fig. S7. ^1H NMR (DMSO- d_6 , 600 MHz) spectrum of **3**.

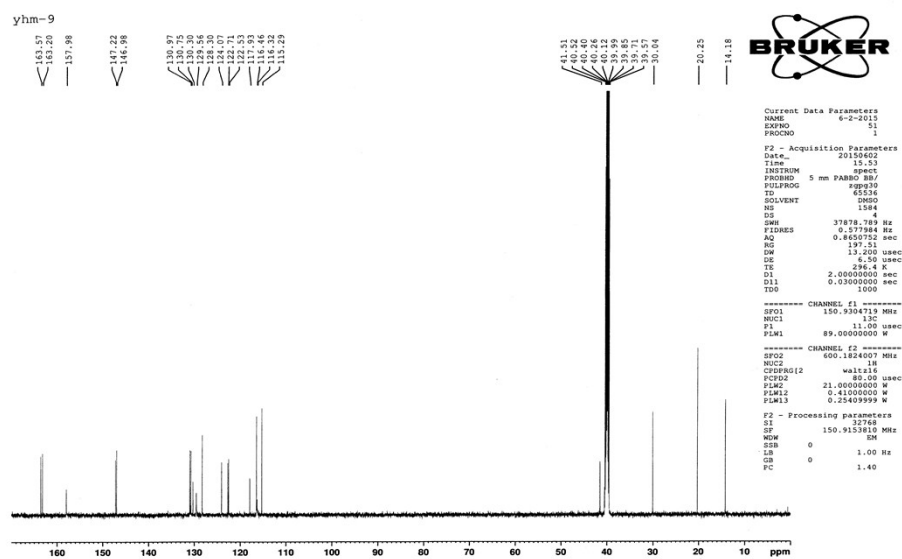


Fig. S8. ^{13}C NMR (DMSO- d_6 , 150 MHz) spectrum of **3**.

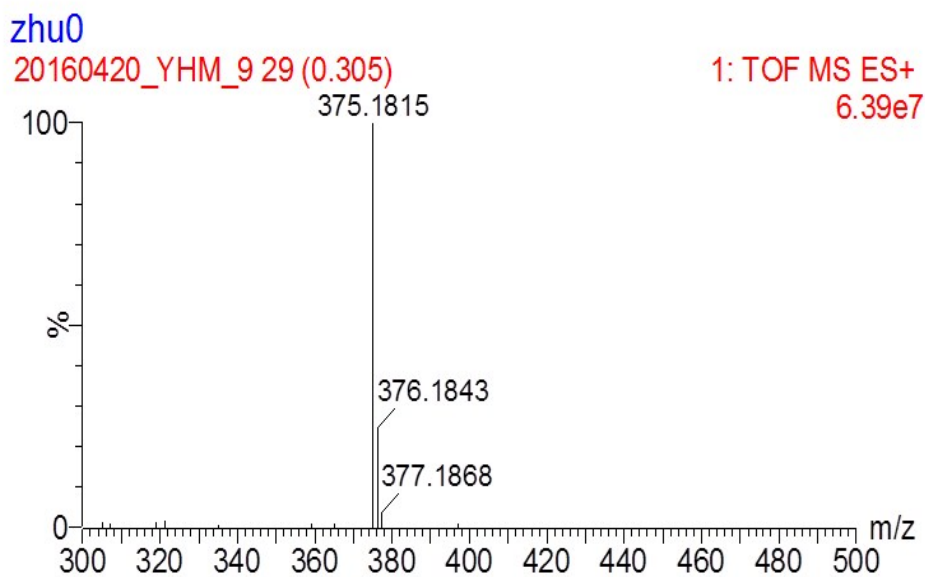


Fig. S9. Mass spectrum of 3.

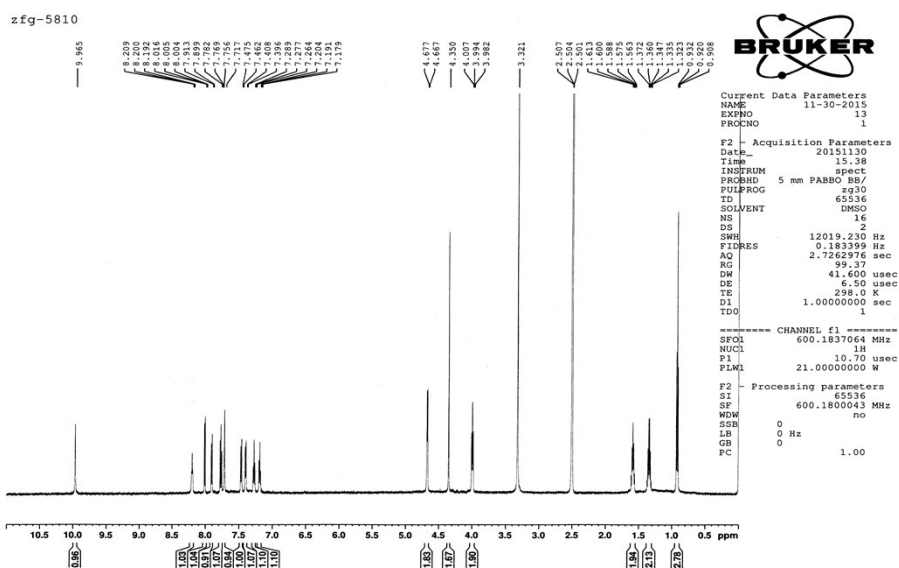


Fig. S10. ^1H NMR (DMSO- d_6 , 600 MHz) spectrum of 4.

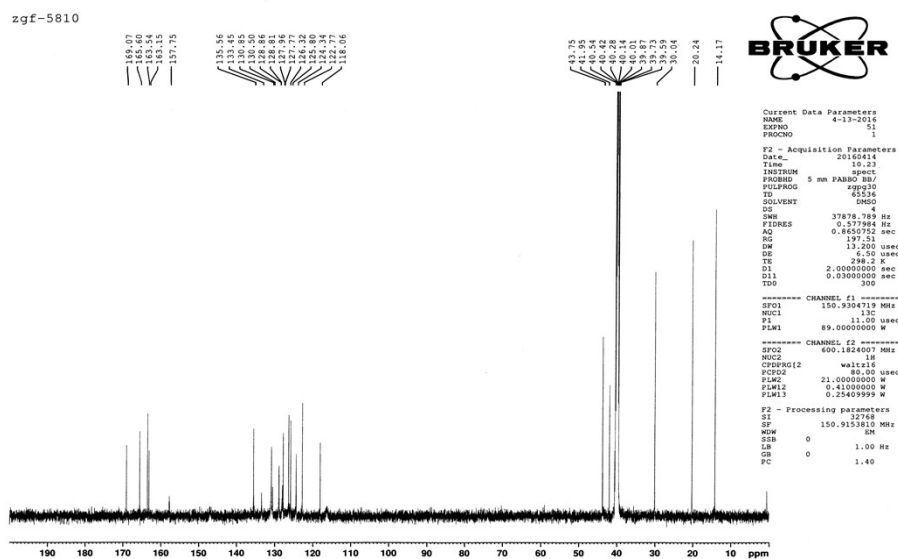


Fig. S11. ^{13}C NMR ($\text{DMSO-}d_6$, 150 MHz) spectrum of 4.

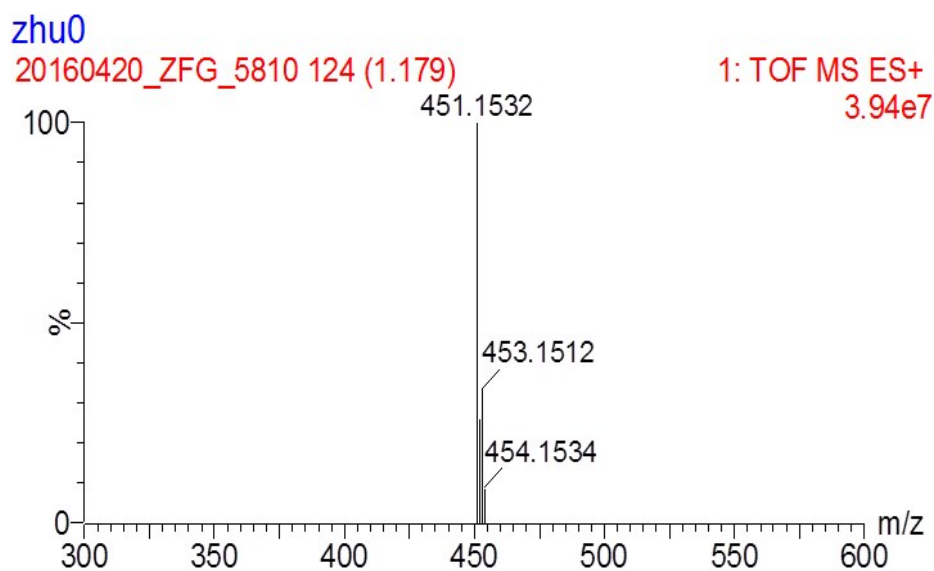


Fig. S12. Mass spectrum of 4.

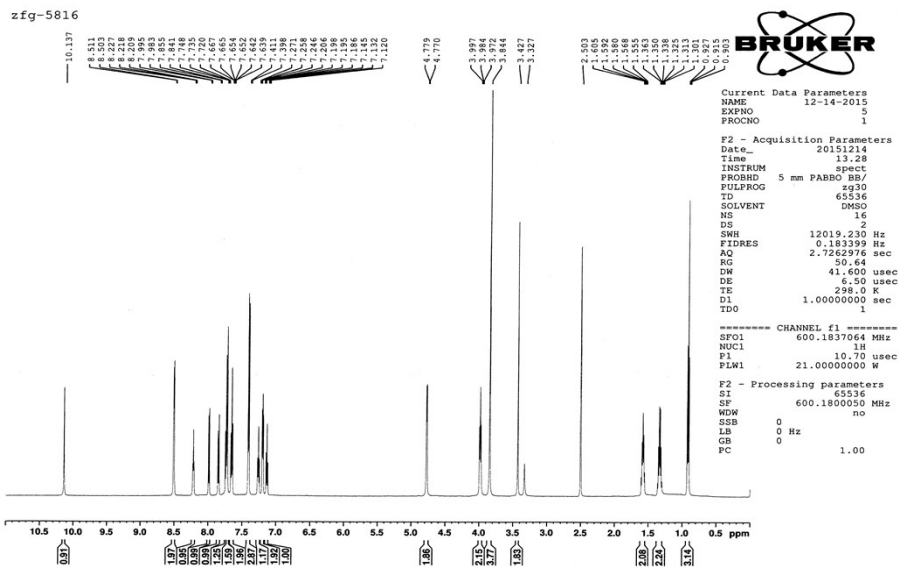


Fig. S13. ^1H NMR (DMSO- d_6 , 600 MHz) spectrum of BNA.

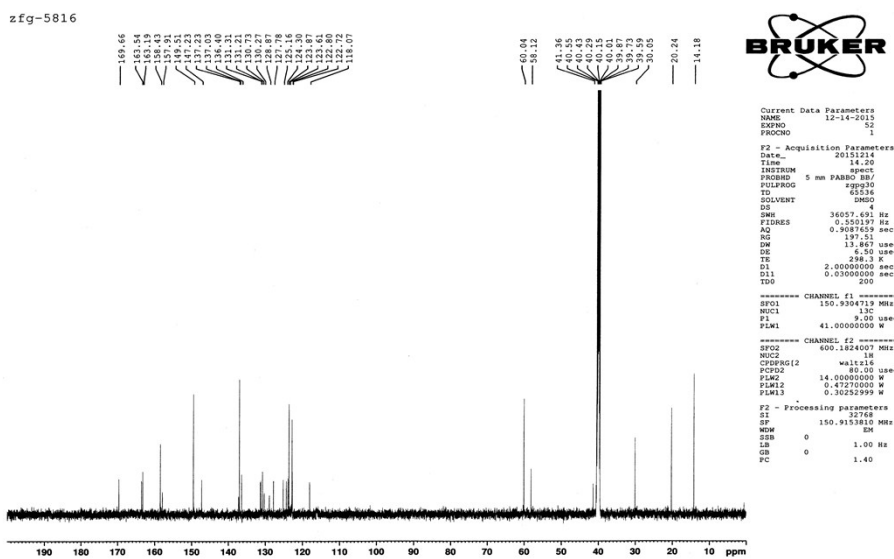


Fig. S14. ^{13}C NMR (DMSO- d_6 , 150 MHz) spectrum of BNA.

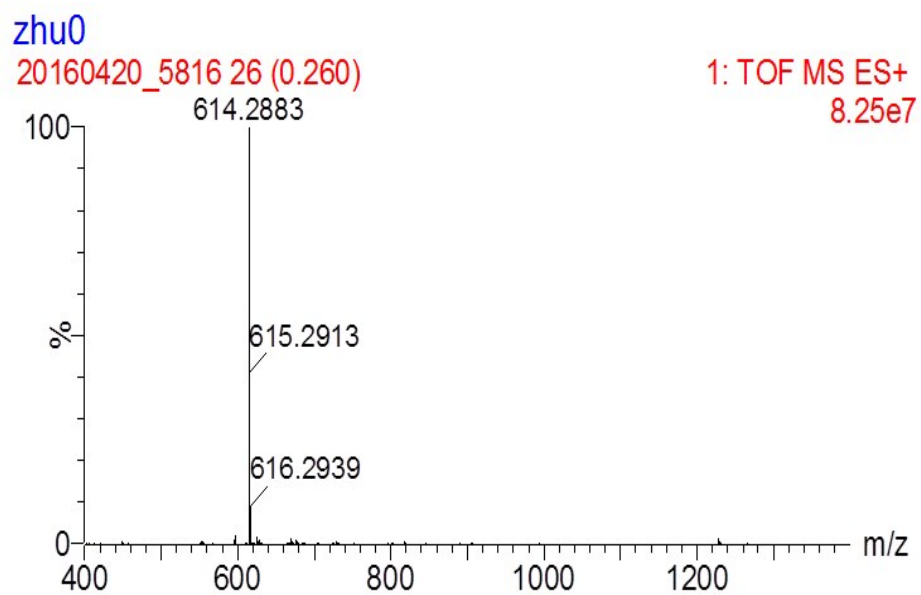


Fig. S15. Mass spectrum of BNA.

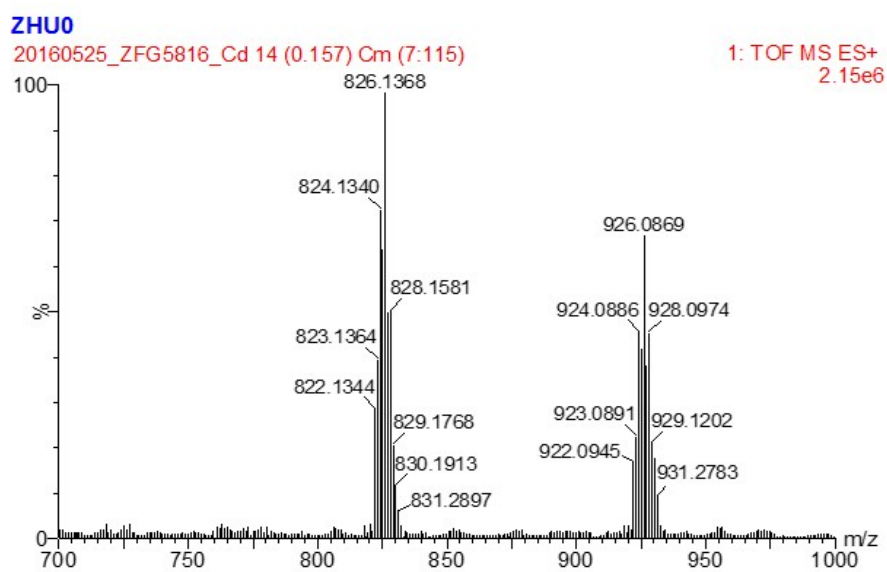


Fig. S16. Mass spectrum of the BNA-Cd²⁺ complex.