

SUPPORTING INFORMATION

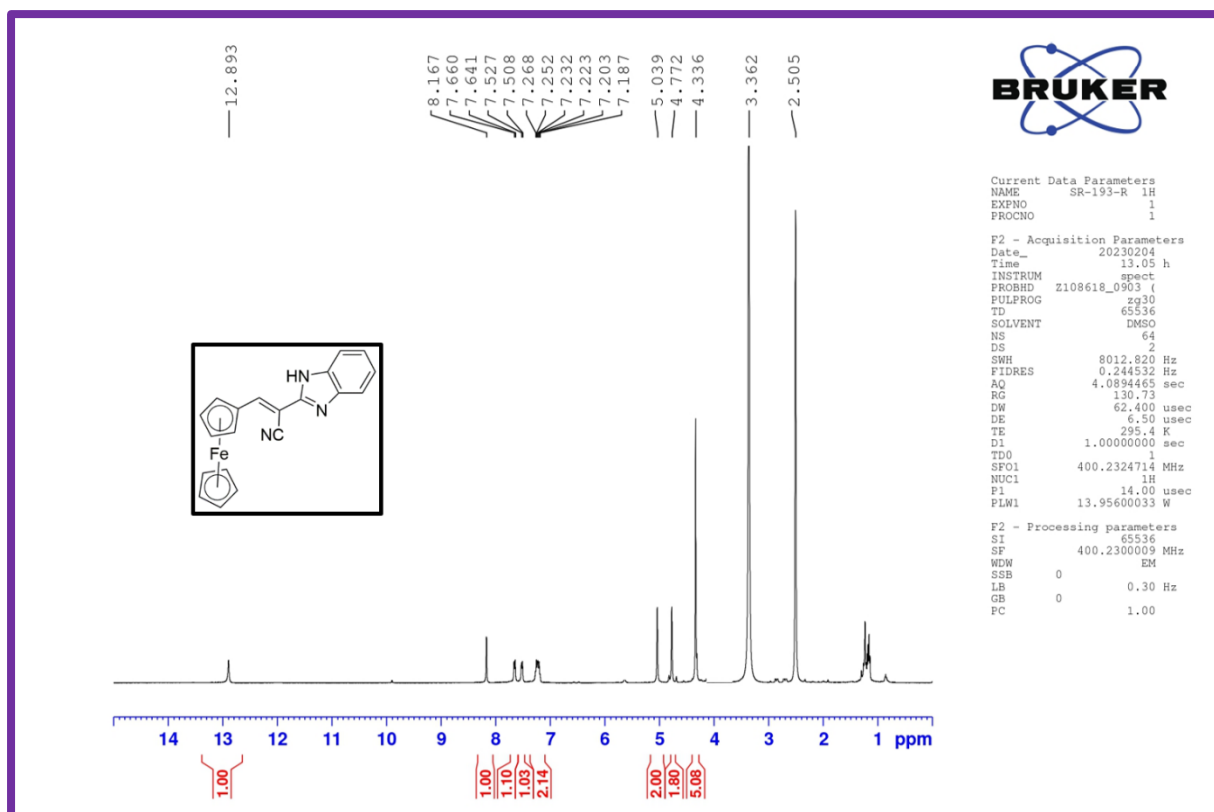


Fig. S1. ¹H NMR spectrum of VDP2

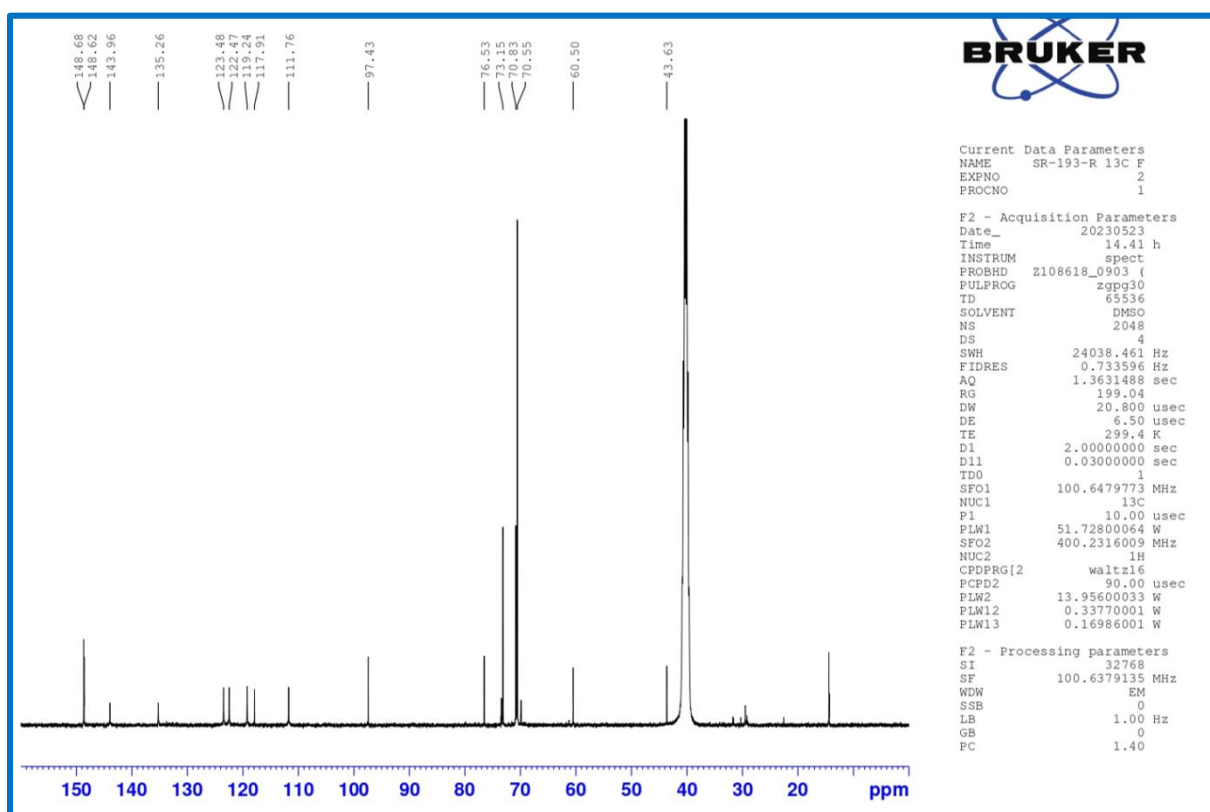


Fig. S2. ¹³C NMR spectrum of VDP2

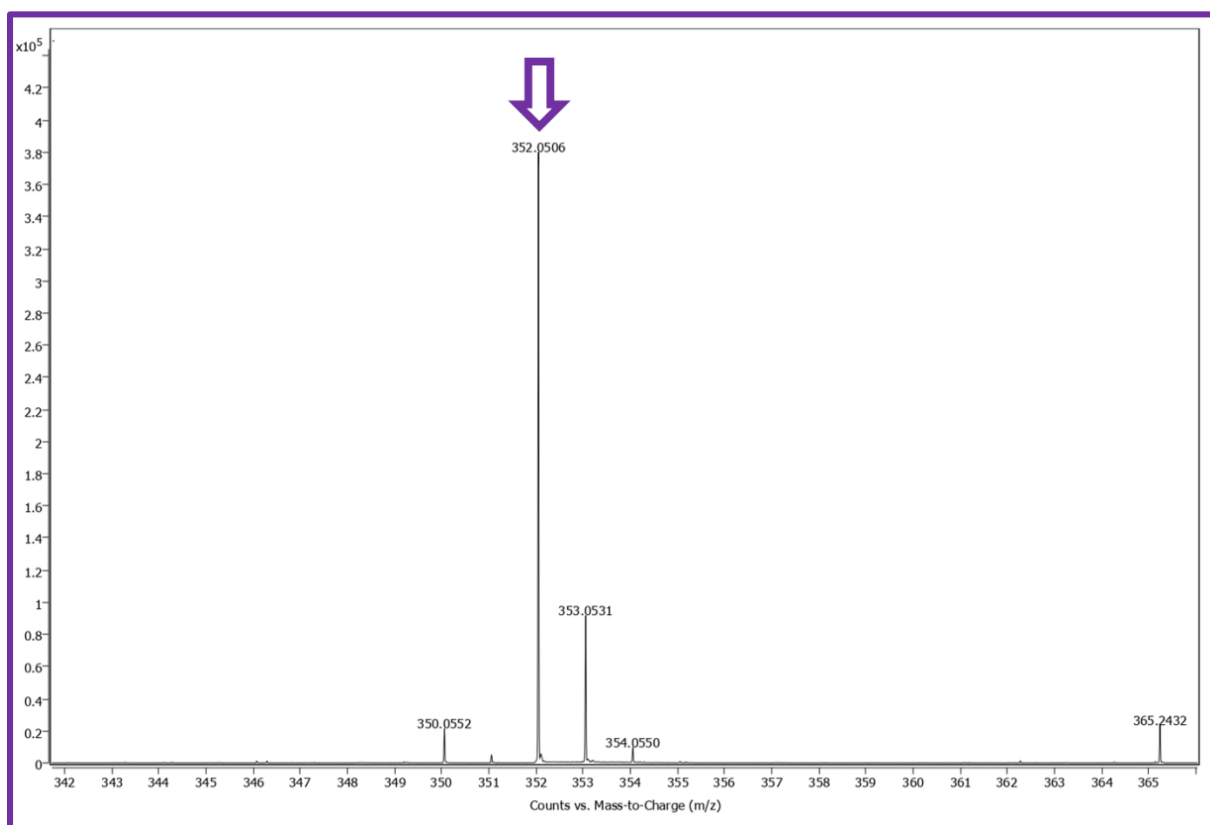


Fig. S3. HR-MS spectrum (negative mode) of **VDP2**

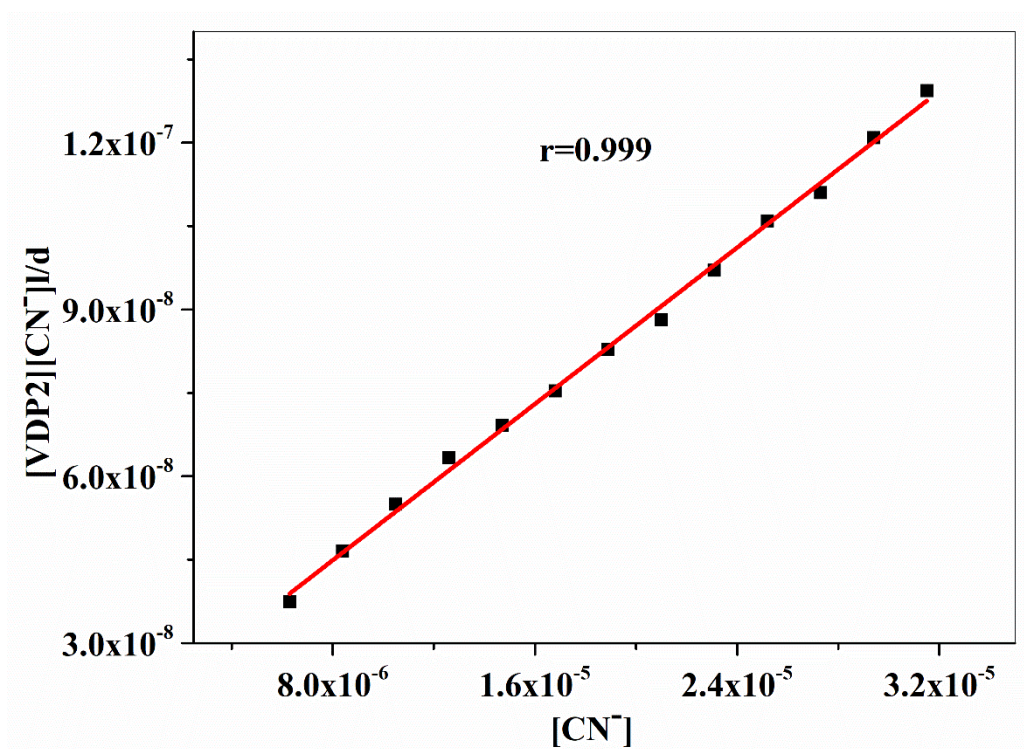


Fig. S4. Scott plot of **VDP2** with CN^- ion in H_2O -DMSO (9:1, v/v) medium

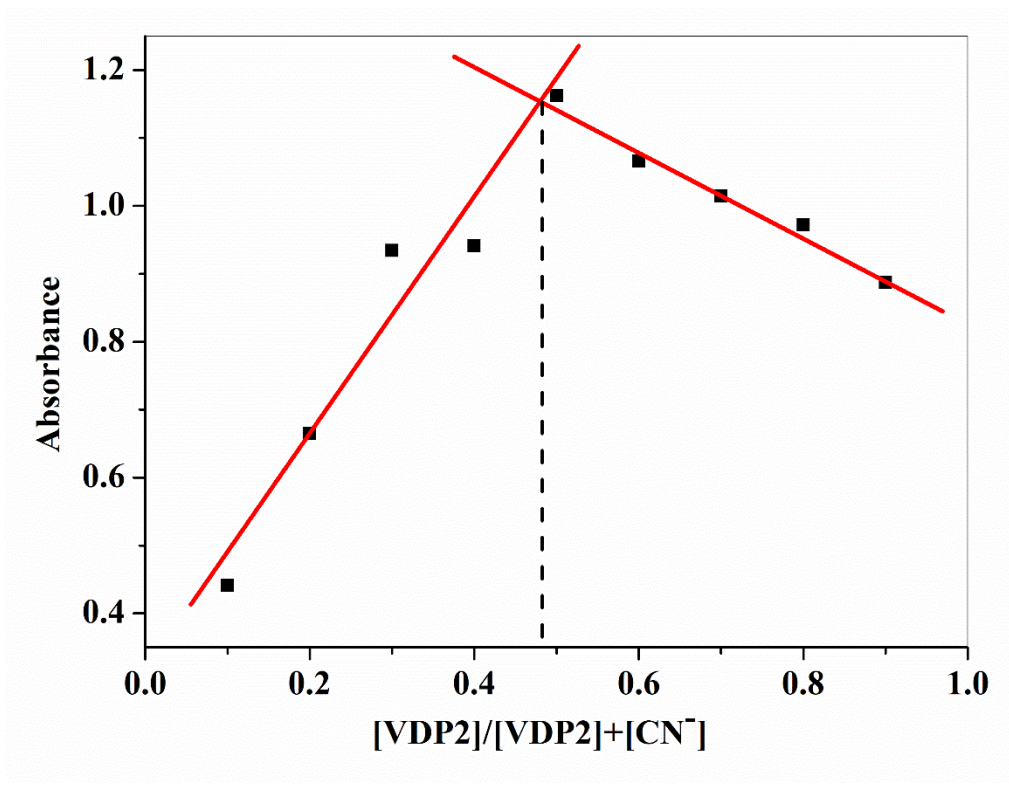


Fig. S5. Job's plot for **VDP2**+CN⁻ complex in H₂O-DMSO (9:1, v/v) medium

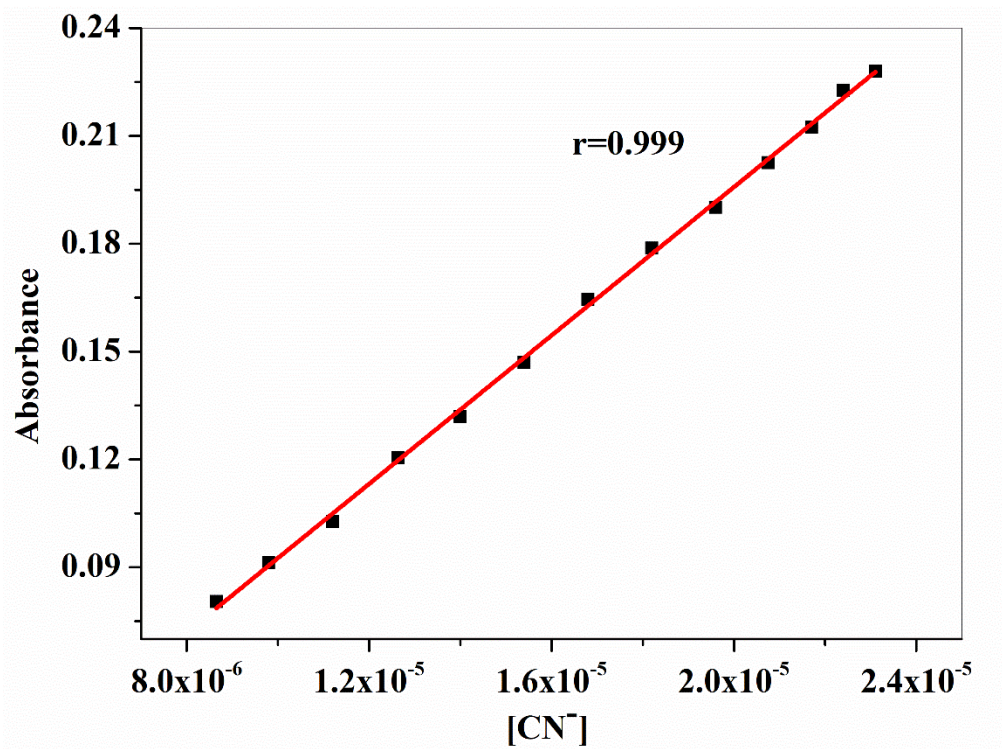


Fig. S6. Detection limit plot of **VDP2** with CN⁻ ion in H₂O-DMSO (9:1, v/v) medium

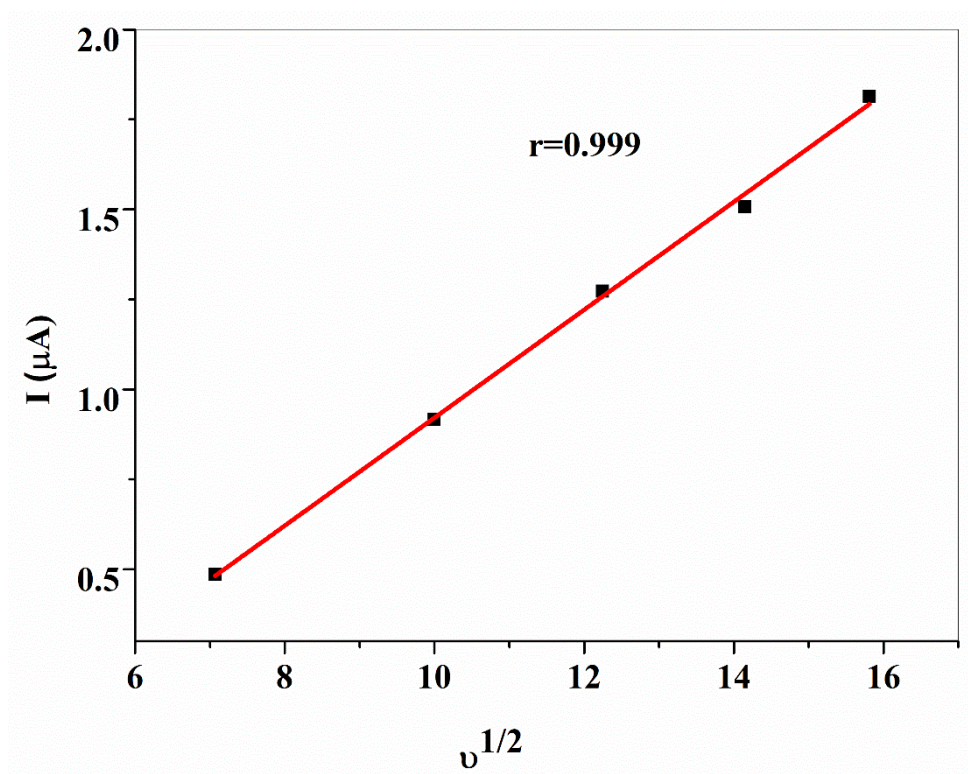


Fig. S7. The plot of I vs $(v)^{1/2}$ of **VDP2** in H_2O -DMSO (9:1, v/v) medium

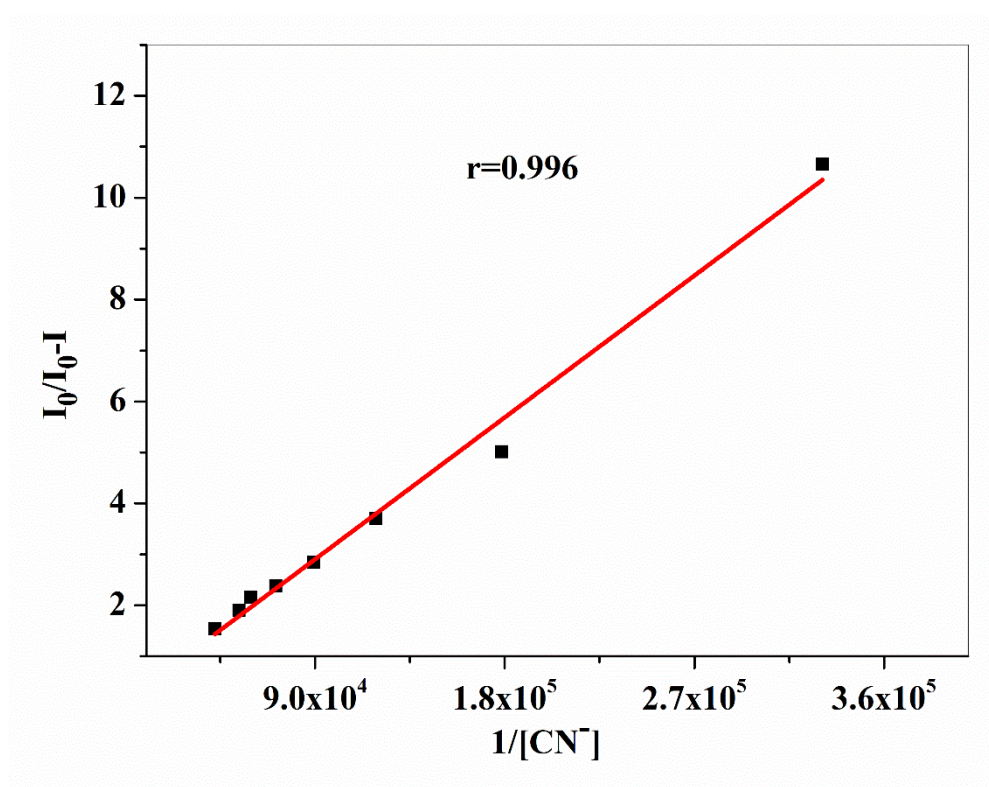


Fig. S8. The Electrochemical binding constant plot of I_0/I_0-I vs $1/[CN^-]$ for the titration of **VDP2** with CN^- ions in H_2O -DMSO (9:1, v/v) medium

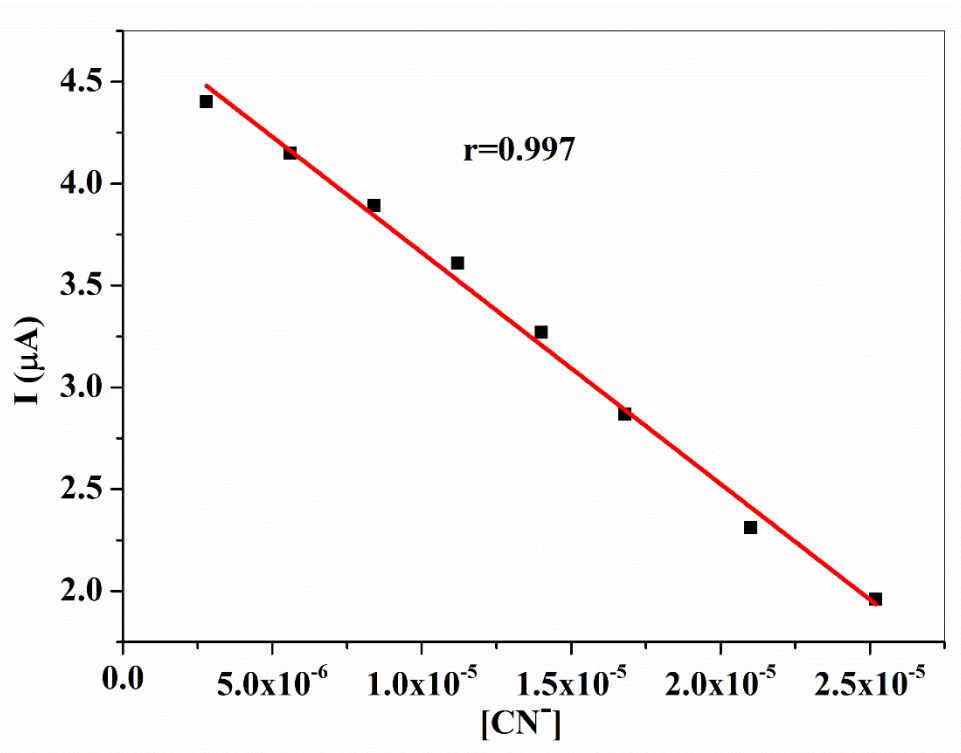


Fig. S9. The Electrochemical LOD plot of **VDP2** with CN⁻ ions in H₂O-DMSO (9:1, v/v) medium

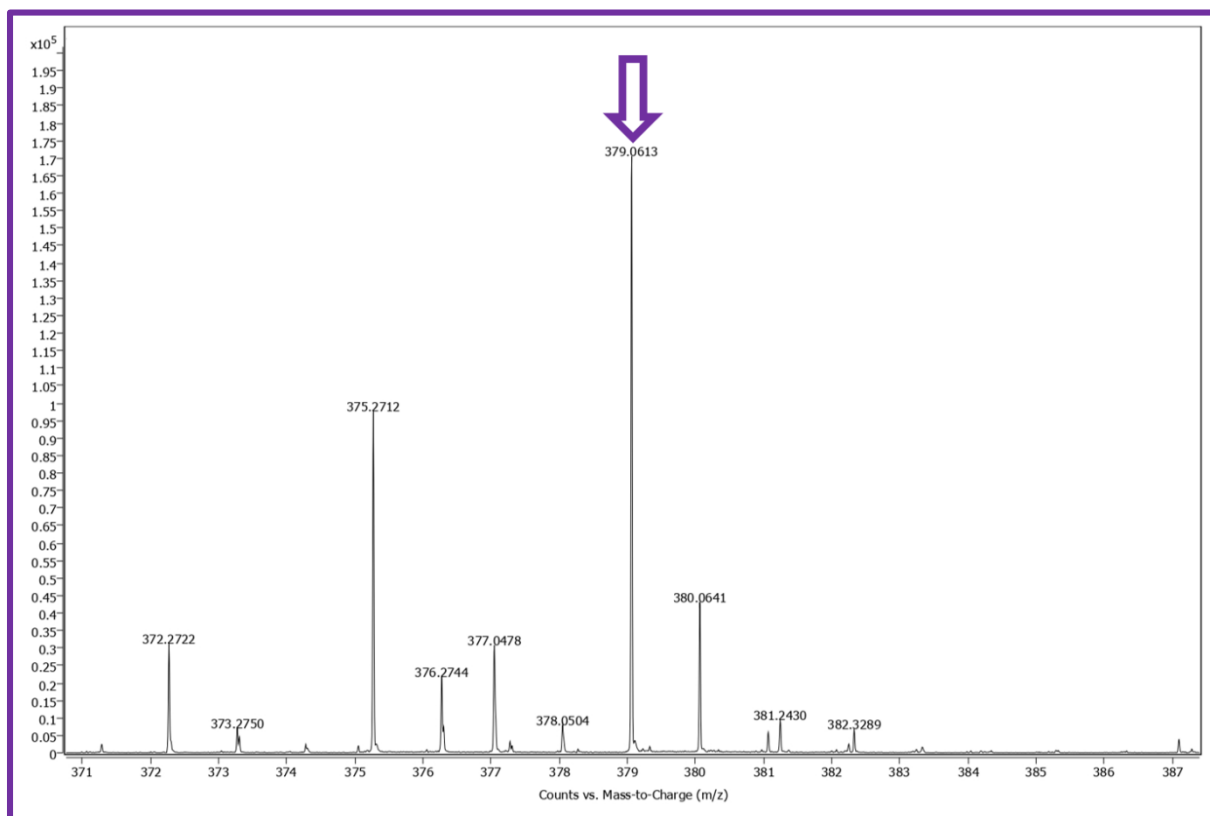


Fig. S10. HRMS spectra of VDP2 with CN^-

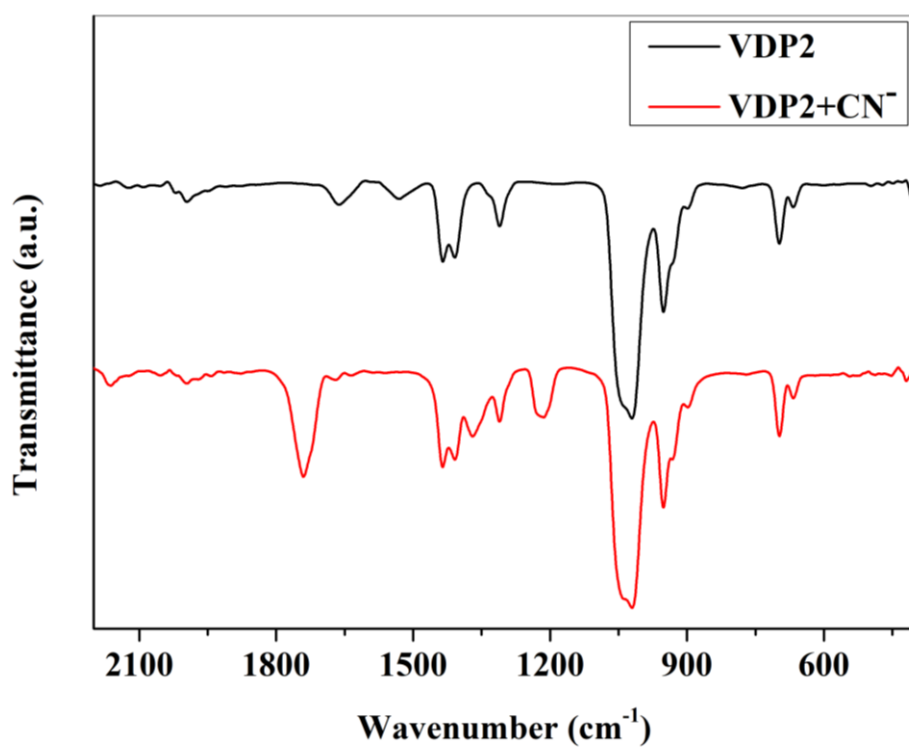


Fig. S11. Partial FT-IR spectra of **VDP2** and **VDP2+CN⁻** adduct

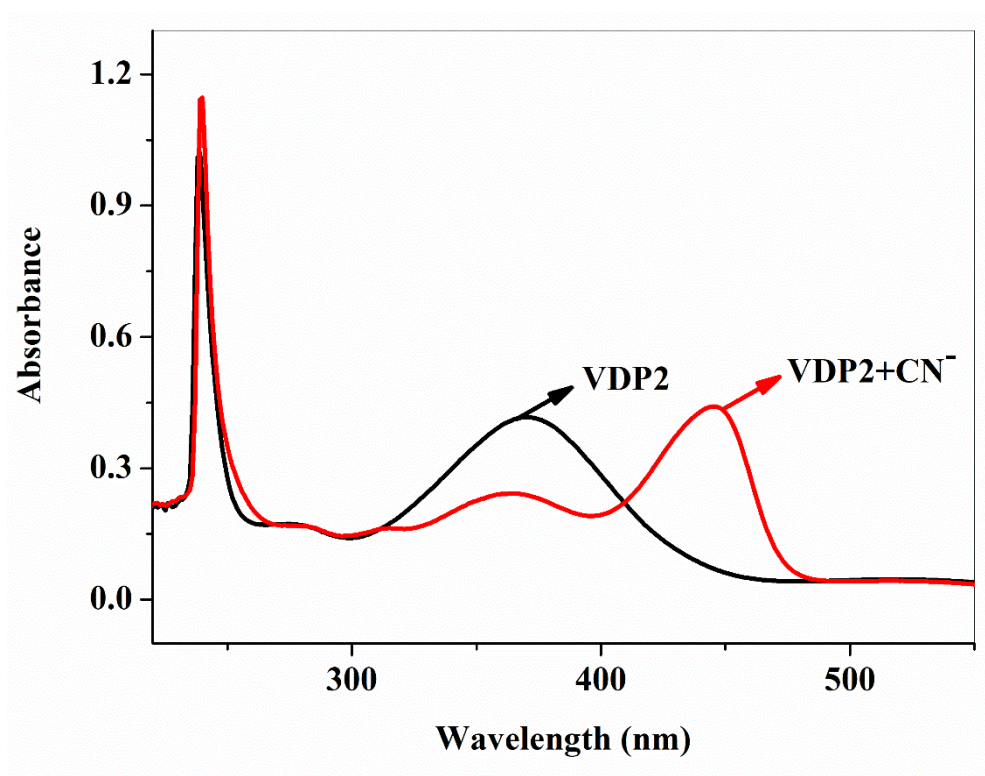


Fig. S12. UV-Visible spectra of VDP2 (25 μM) and VDP2 with CN^- (25 μM) in H_2O -DMSO (9:1, v/v) medium