Electronic Supplementary Information

A novel benzothiazole-based enaminone as fluorescent probe for highly selective and sensitive detection of CN^-

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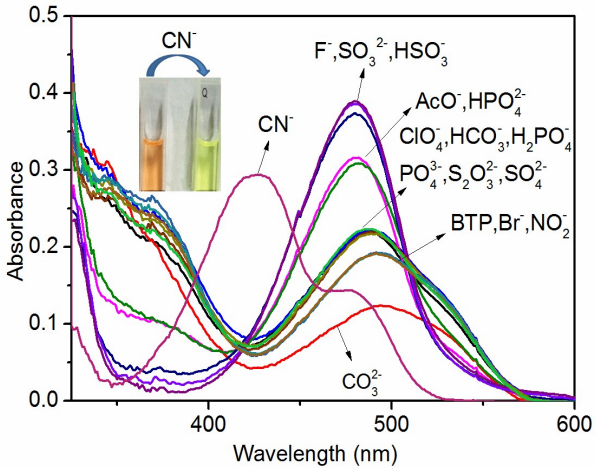

Fig. S1. UV-vis absorption spectrum changes of **BTP** (20 μM) in DMSO/H_2O (95/5, v/v, HEPES, 10 mM, pH = 7.4) upon addition of different anions (60.0 equiv. of each).

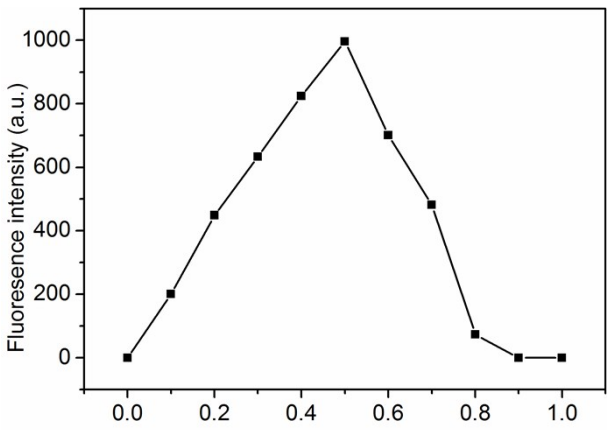

Fig. S2. Job's plot studies between **BTP** and CN^-. λ_{ex} = 382 nm. λ_{em} = 487 nm.

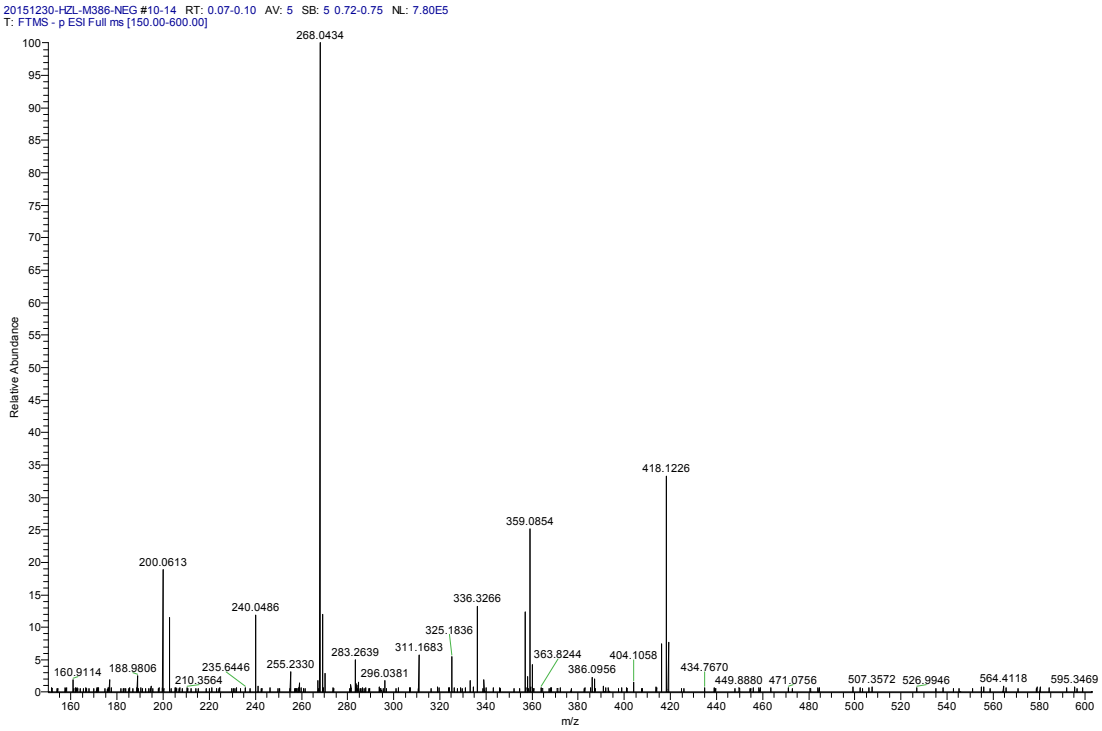

Fig. S3. HRMS (ESI-) of **BTP**+CN^-.

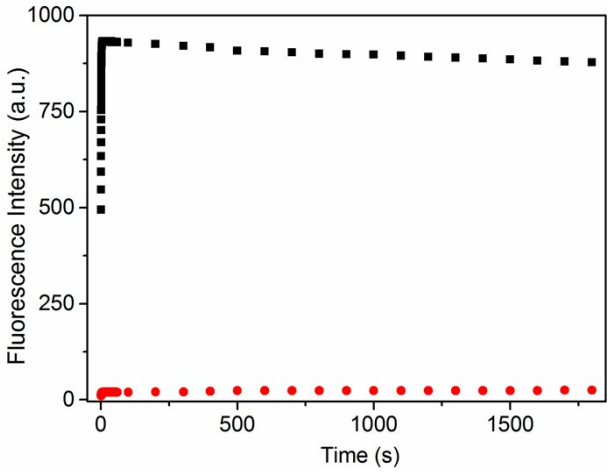

Fig. S4. Changes in fluorescence intensity of **BTP** (red, λ_{ex} = 382 nm, λ_{em} = 602 nm) and **BTP**-CN^- adduct (black, λ_{ex} = 382 nm, λ_{em} = 487 nm) versus time.

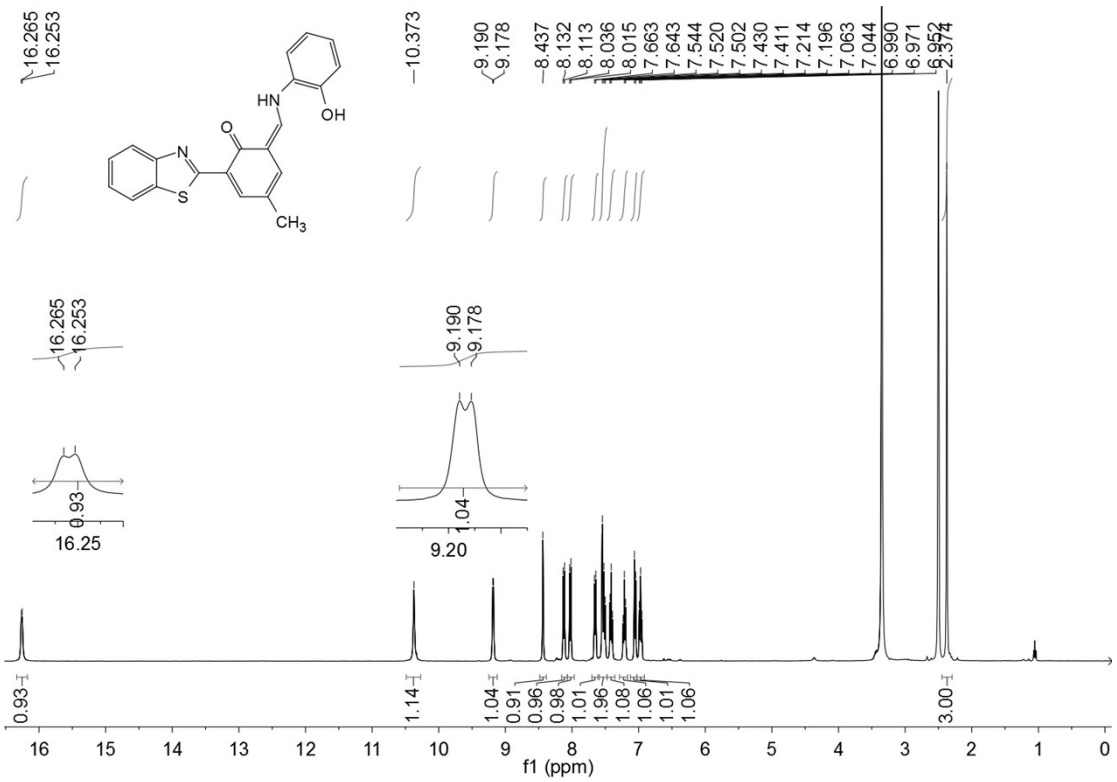

Fig. S5. ^{1}H NMR of probe **BTP** in DMSO-d_6.

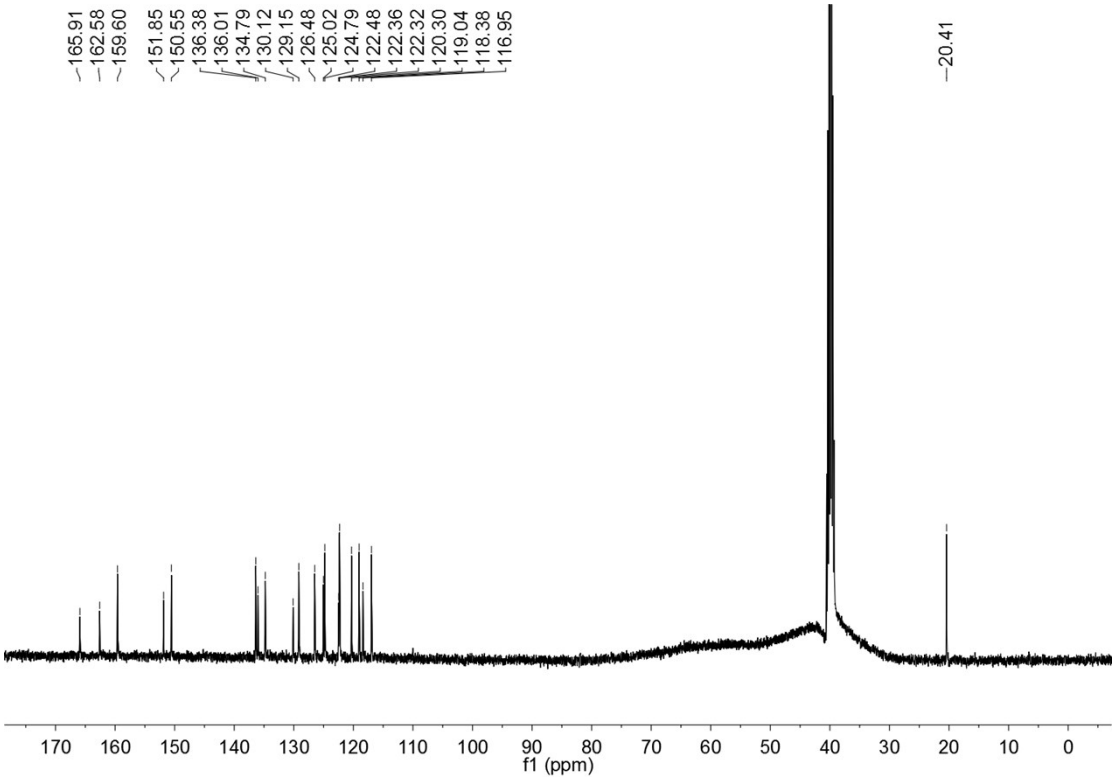

Fig. S6. ^{13}C NMR of probe **BTP** in DMSO-d_6.

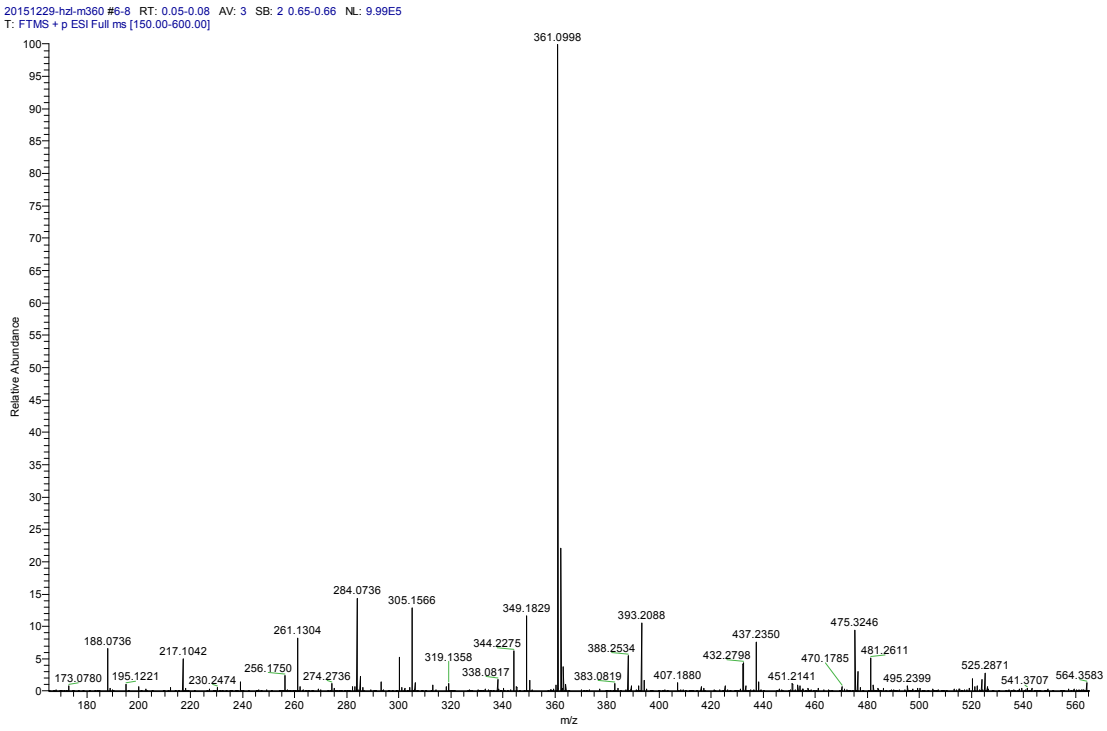

Fig. S7. HRMS(ESI+) spectrum of probe **BTP** in DMSO-d_6.