

Far-red-emissive AIE Active Fluorescent Probe with Large Stokes Shift for Detection of Inflammatory Bowel Disease *In Vivo*

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Supplementary Results

Fig. S1. ¹H NMR spectrum of PTZB-FR in DMSO-d₆

Fig. S2. ¹³C NMR spectrum of PTZB-FR in DMSO-d₆

Fig. S3. IR spectrum of PTZB-FR

Fig. S4. ESI-MS spectrum of PTZB-FR

Fig. S5 Particle-size distribution of PTZB-FR in water studied via DLS experiment

Fig. S6 UV-spectra of PTZB-FR in different solvent

Fig.S7 Molecular orbital amplitude plot of HOMO and LUMO energy level of PTZB-FR calculated by B3LYP/6-31G (d) basis set

Fig.S8. (A)Fluorescent images HT-29 cells stained with PTZB-FR. (B)Flow cytometry histograms of HT-29 cells after incubation with 5 μ M PTZB-FR (left panel), unpaired t-test was performed to analyzed the fluorescence intensity as indicated

Fig. S9 Time course of PL intensity change of 5 μ M PTZB-FR in DMEM with 10% FBS at 37 °C.

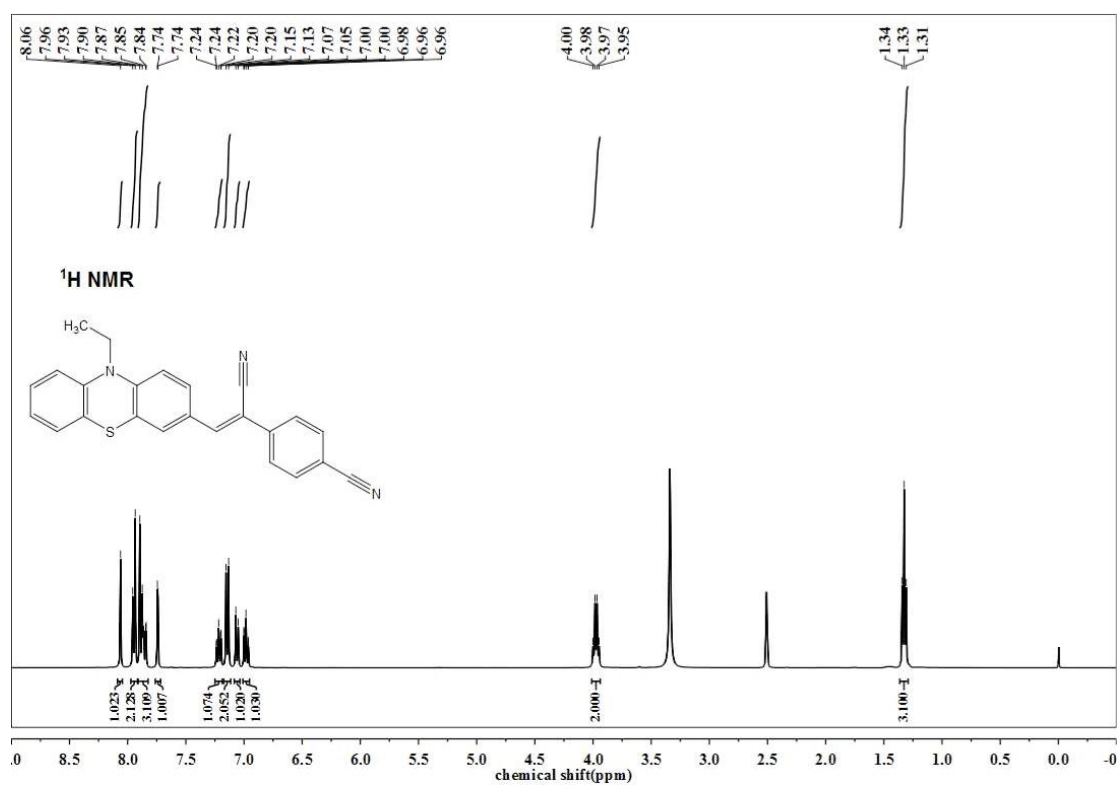


Fig. S1. ¹H NMR spectrum of PTZB-FR in DMSO-d₆

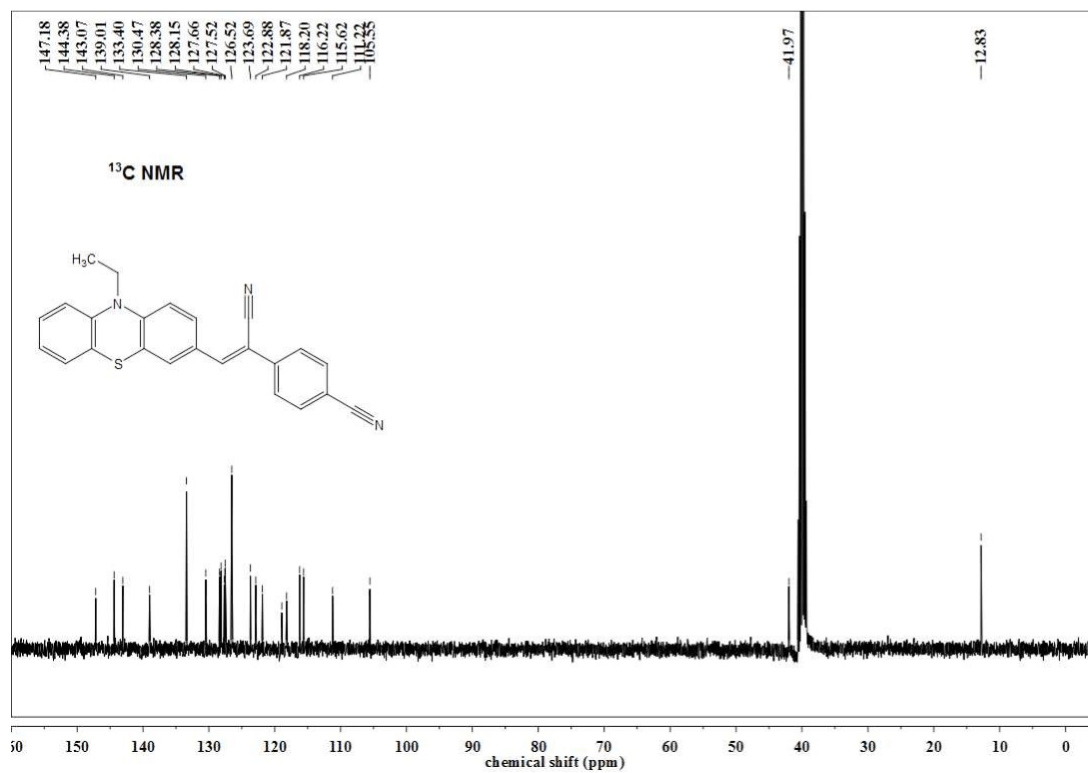


Fig. S2. ¹³C NMR spectrum of PTZB-FR in DMSO-d6

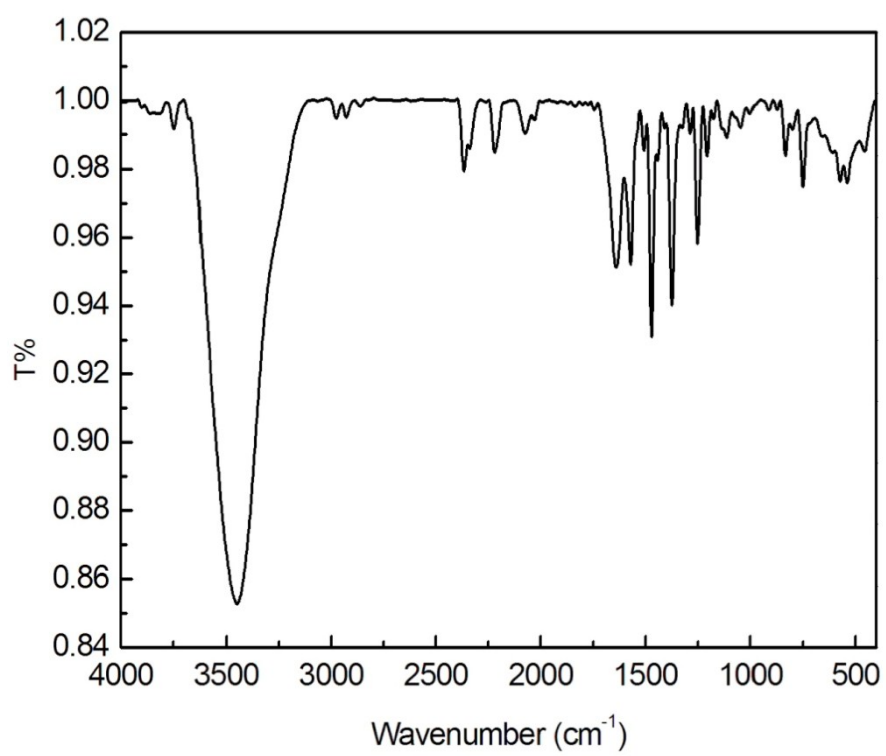


Fig. S3. IR spectrum of PTZB-FR

Generic Display Report

Analysis Info

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Comment

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Operator HSJ

Instrument maXis impact

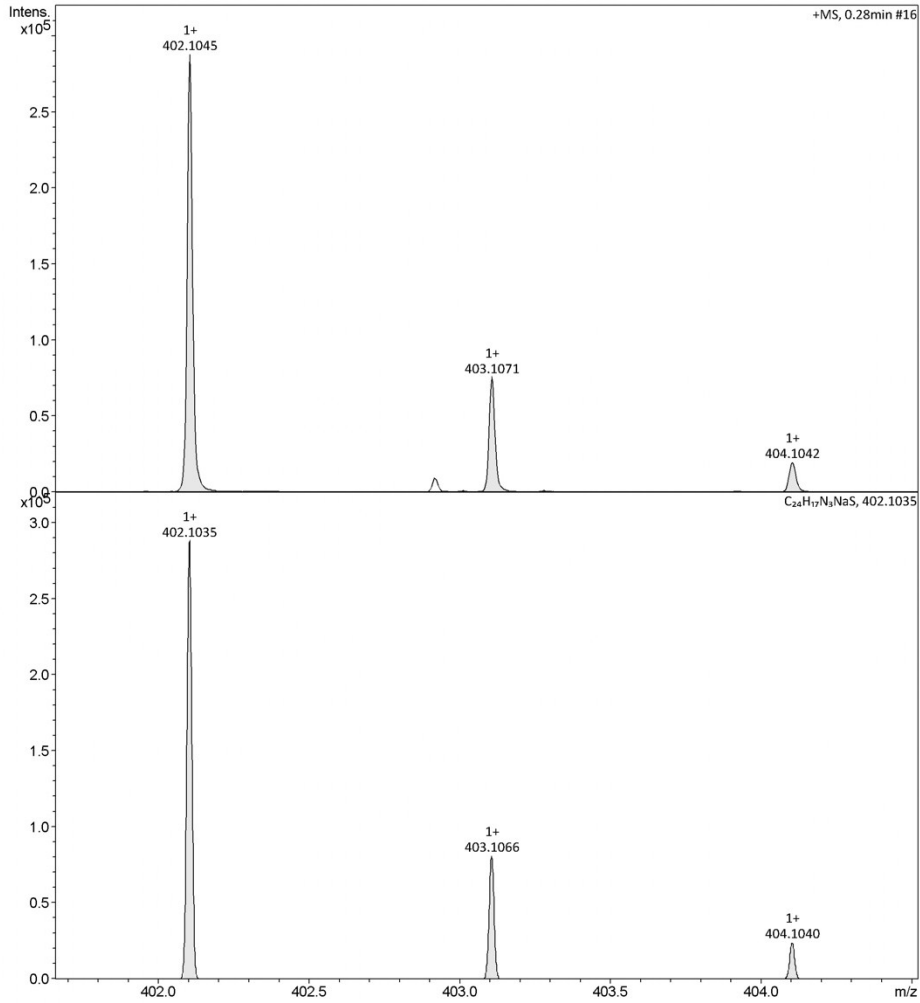


Fig. S4. ESI-MS spectrum of PTZB-FR

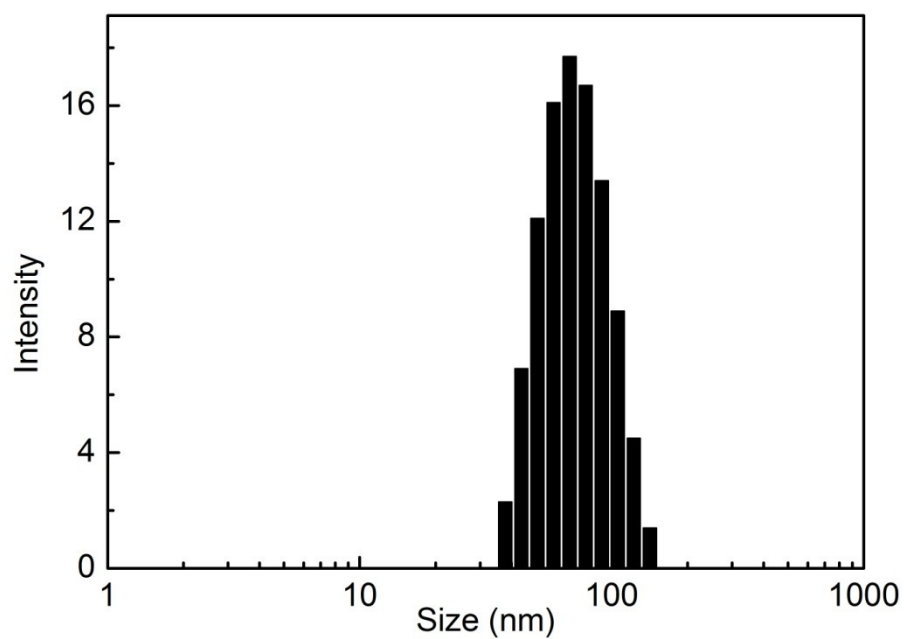


Fig. S5 Particle-size distribution of PTZB-FR in water studied via DLS experiment

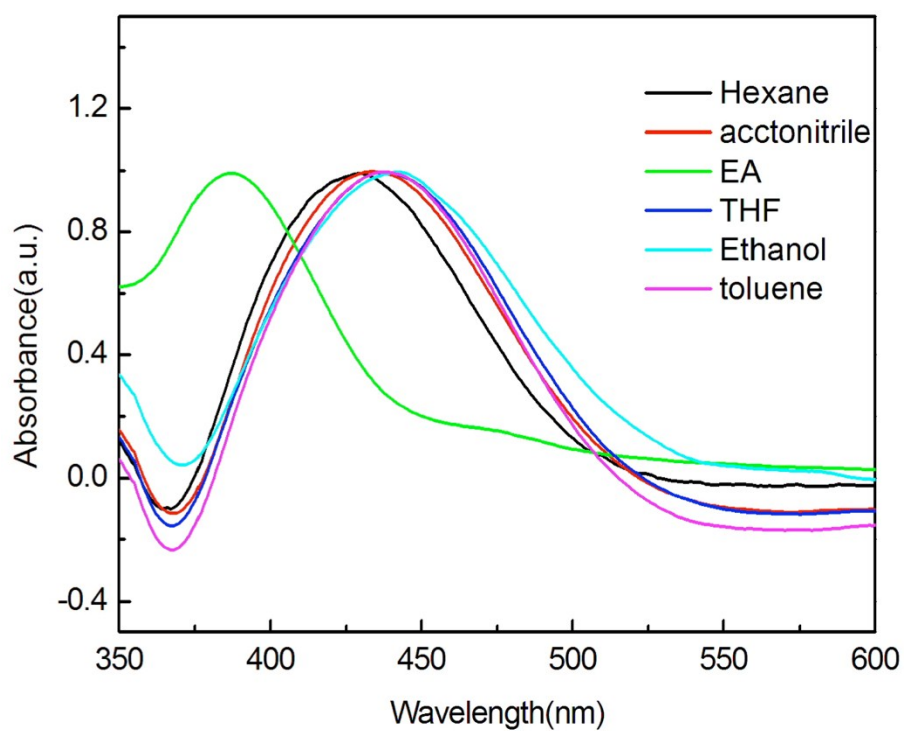
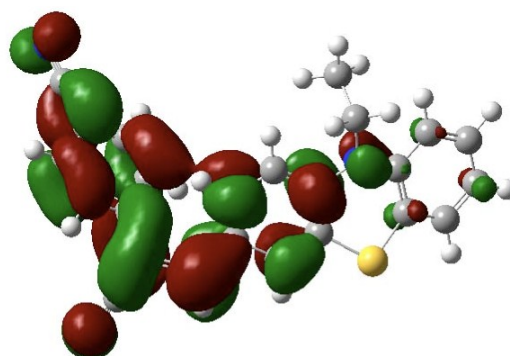


Fig. S6 UV-spectra of **PTZB-FR** in different solvent

LUMO:-2.378eV



HOMO:-5.342eV

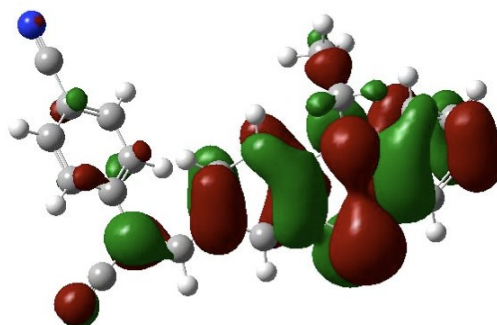


Fig. S7 Molecular orbital amplitude plot of HOMO and LUMO energy level of **PTZB-FR** calculated by B3LYP/6-31G (d) basis set

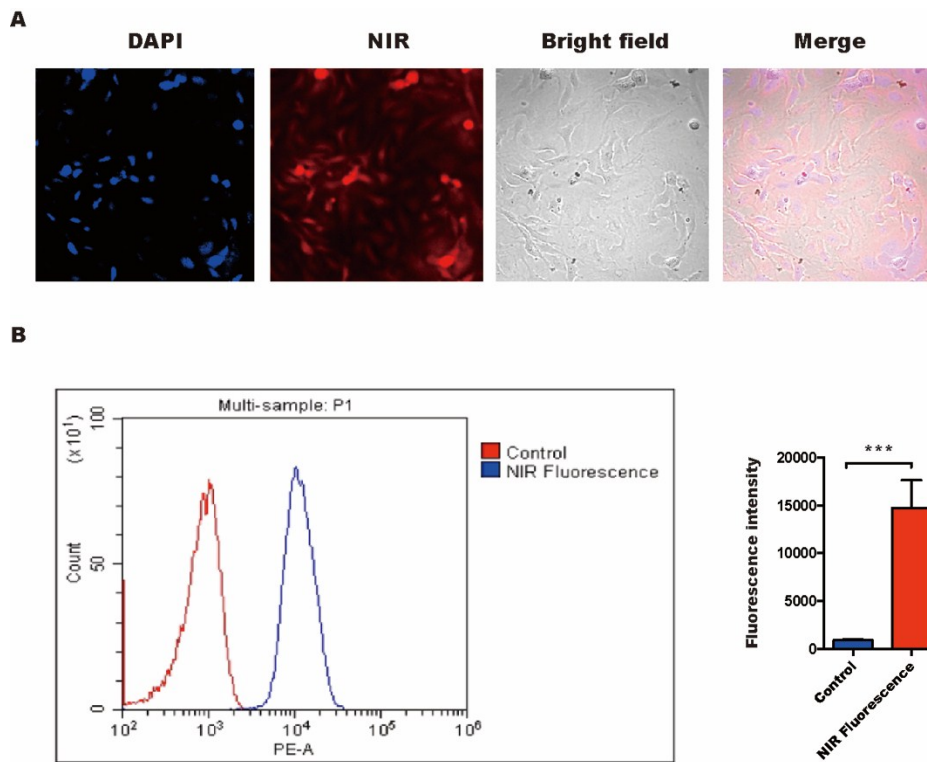


Fig. S8. (A) Fluorescent images HT-29 cells stained with **PTZB-FR**. (B) Flow cytometry histograms of HT-29 cells after incubation with $5\mu\text{M}$ **PTZB-FR** (*left panel*), unpaired t-test was performed to analyzed the fluorescence intensity as indicated

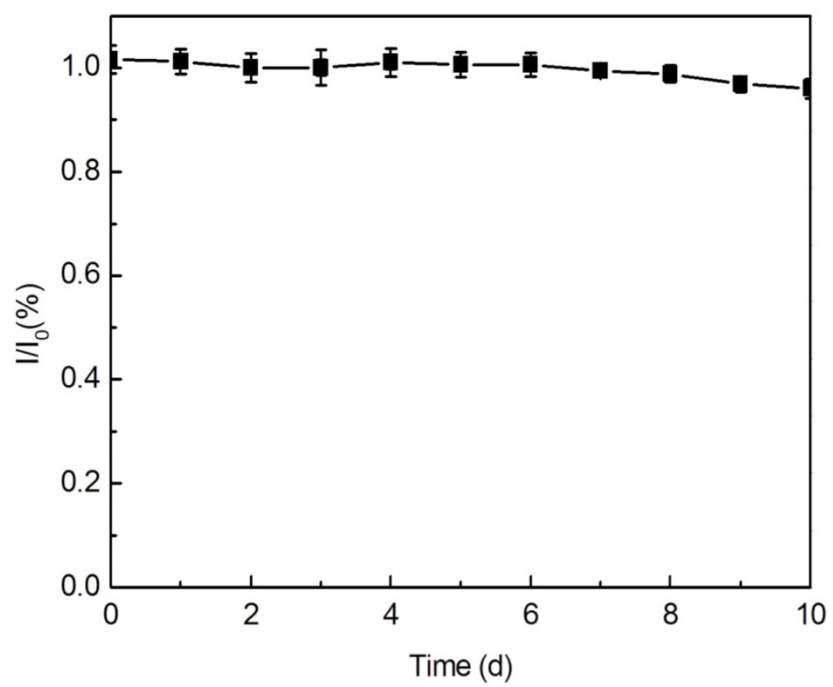


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