

Supporting information

A novel fluorescent probe: for efficient detection of fluoride ions in living animal and plant tissues

Jun Chen¹, Maoting Qu¹, Jiahao Zhang¹, Yongxue Yao¹, Xinyu Pei¹, Wen Wu^{2*} and Shuchen Pei^{1*}

¹*College of Chemistry and Chemical Engineering, Chongqing University of Science and Technology, Chongqing 401331, PR China*

²*Chongqing Key Laboratory of High Active Traditional Chinese Drug Delivery System, Chongqing Engineering Research Center of Pharmaceutical Sciences, Chongqing Medical and Pharmaceutical College, Chongqing 404120, PR China*

* Corresponding author E-mail: Wenwu: wuwen_monica@outlook.com; Shuchen Pei: peishuchen928@163.com

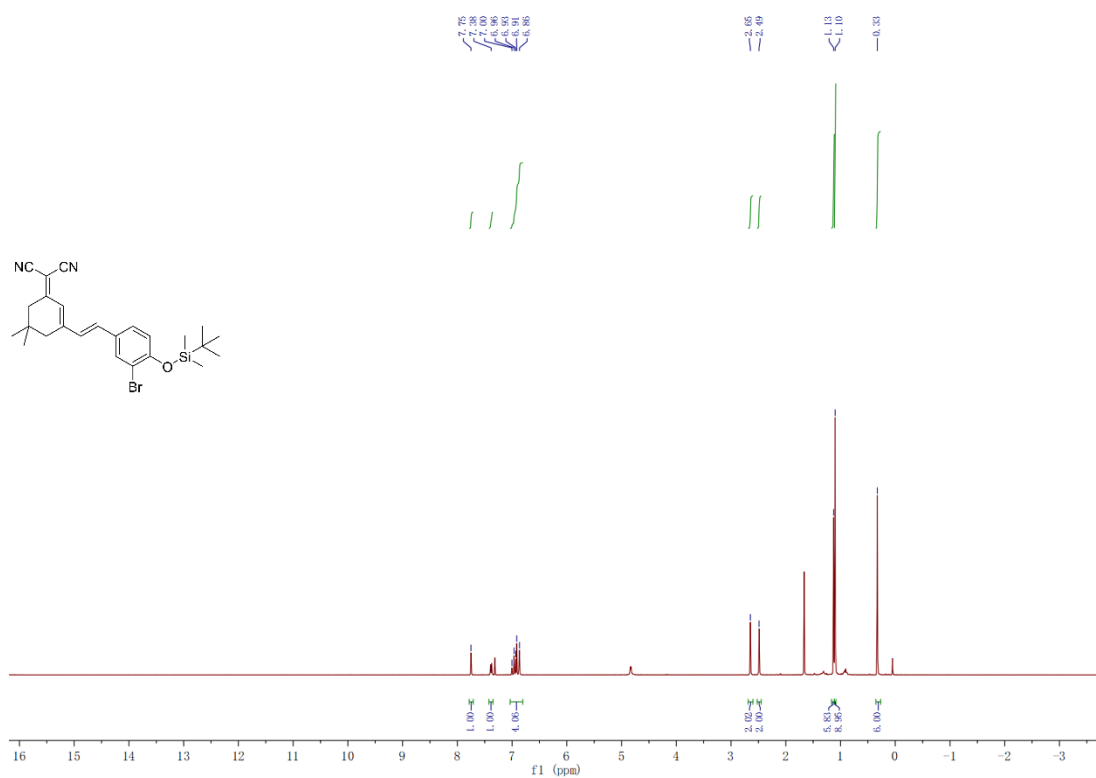


Fig. S1 ¹H NMR of IF-Br-F

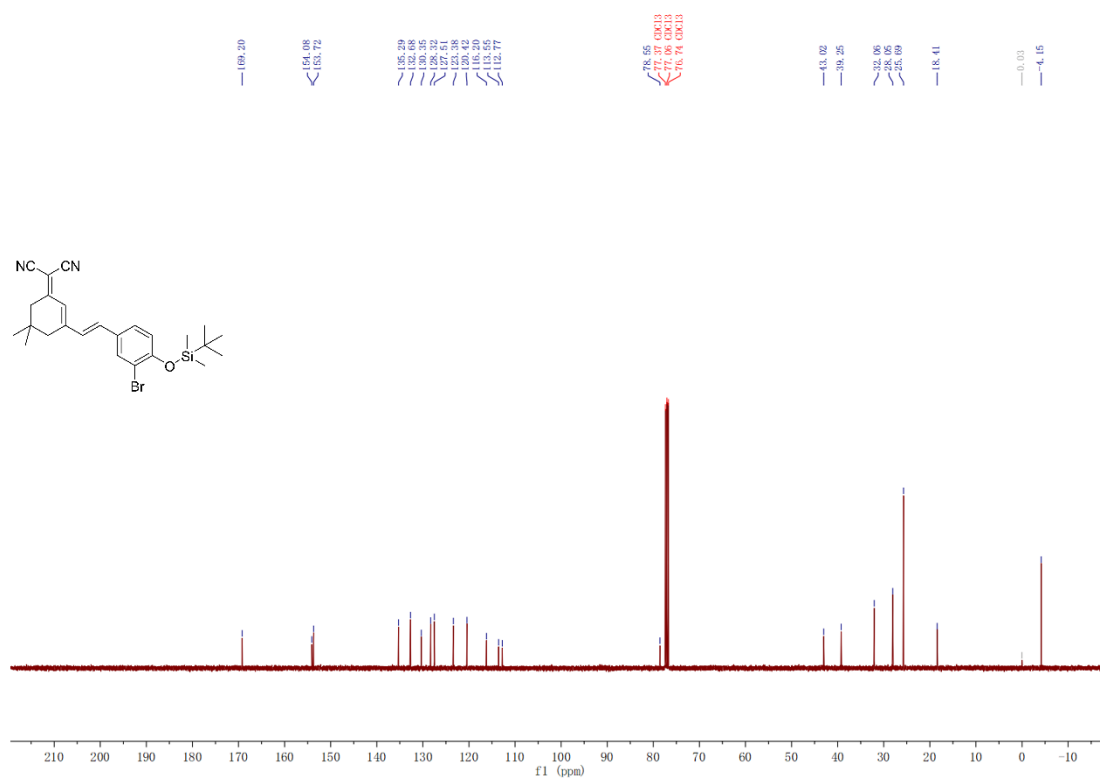


Fig. S2 ¹³C NMR of IF-Br-F

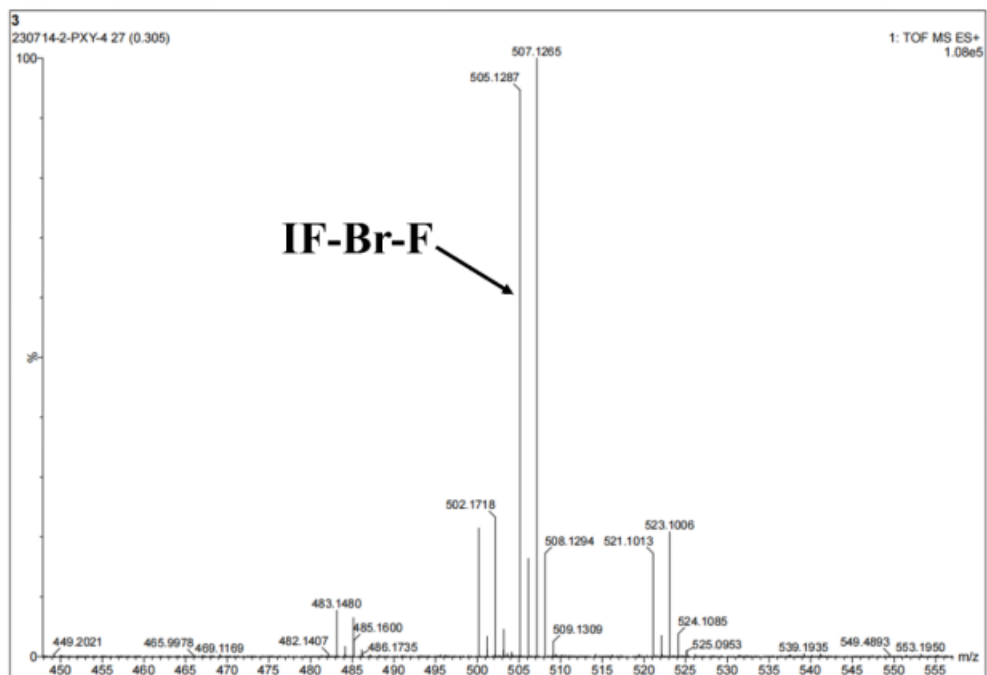


Fig. S3 HRMS of IF-Br-F

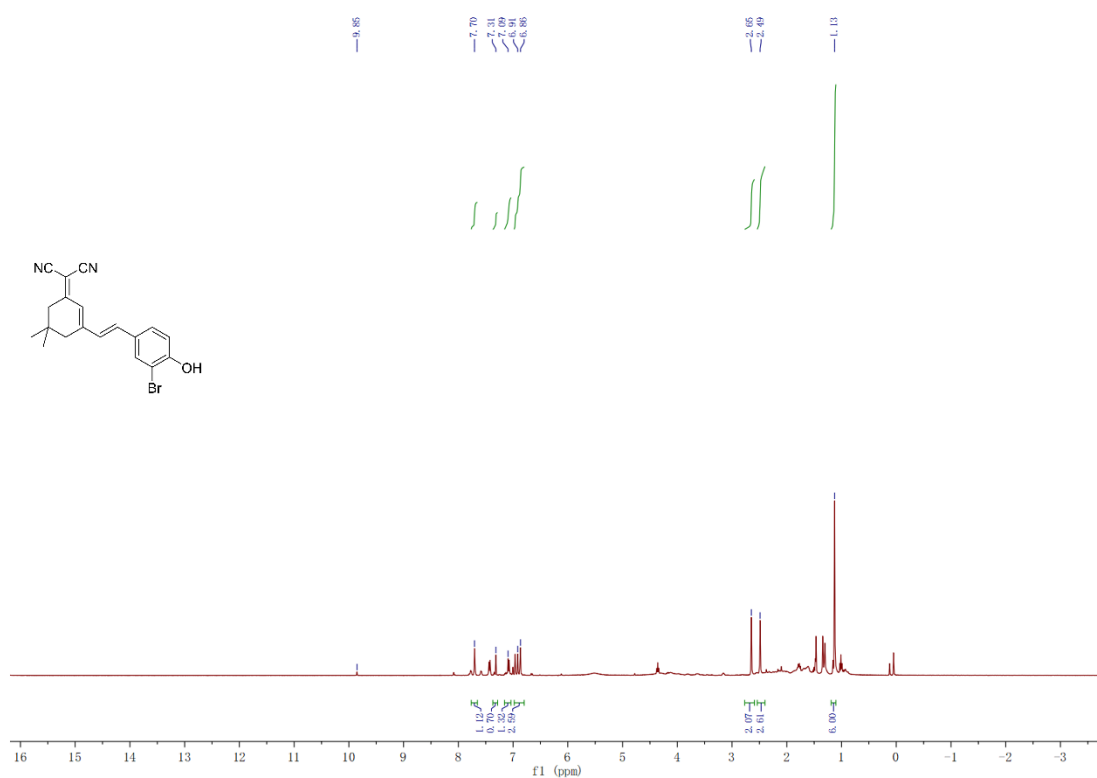


Fig. S4 ^1H NMR of IF-Br-OH

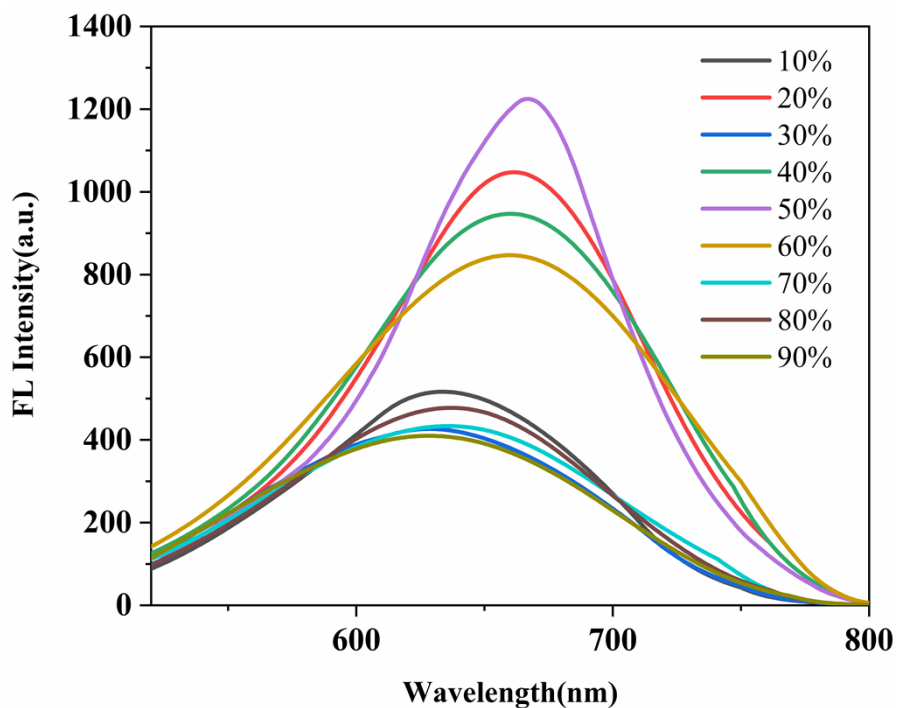


Fig. S7 fluorescence emission spectra of IF Br-F (10.0 μM) add fluoride ion (100.0 μM) fluorescence emission spectra in different ratios of DMSO and PBS buffer solutions. $\lambda_{\text{ex}}=520$ nm.

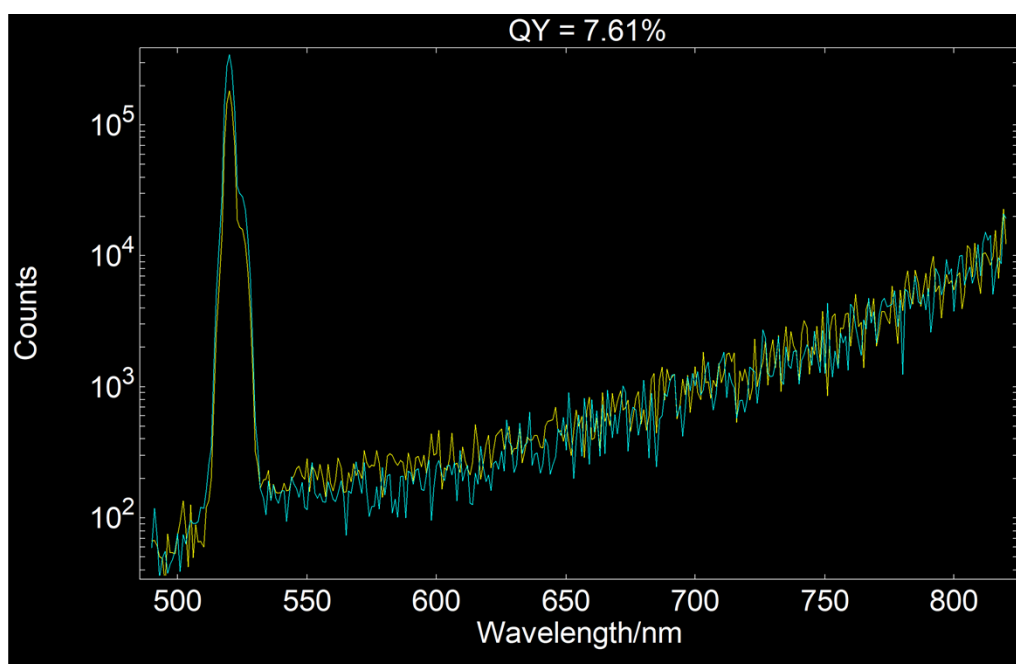


Fig. S8 IF-Br-F fluorescence quantum yield. $\lambda_{\text{ex}}=520$ nm.