

# Supporting Information

## A highly colorimetric and ratiometric fluorescent probe for fluoride ion and fluoride ion test-strip

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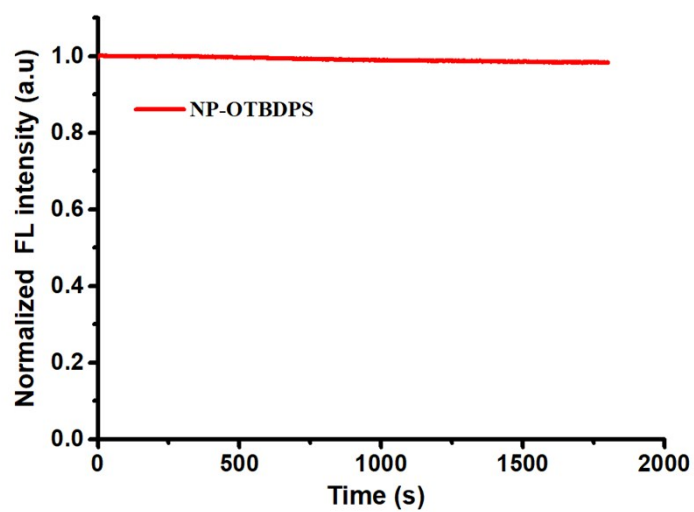
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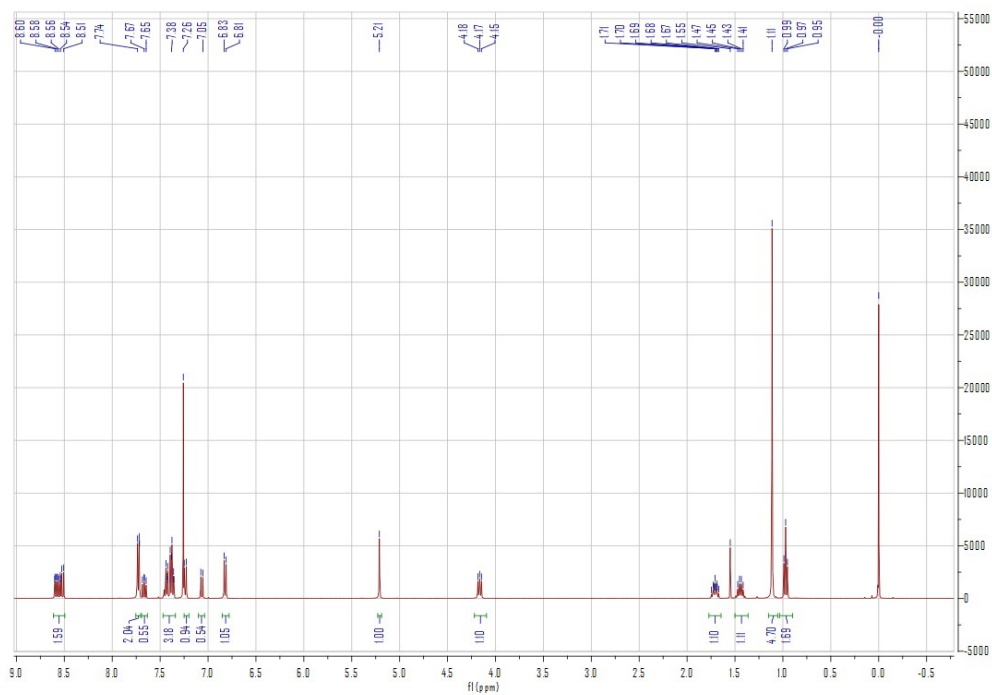
1. The photostability of NP-OTBDPS.
2. The characterization data of TPA-SD.

## 1. The photostability of NP-OTBDPS.

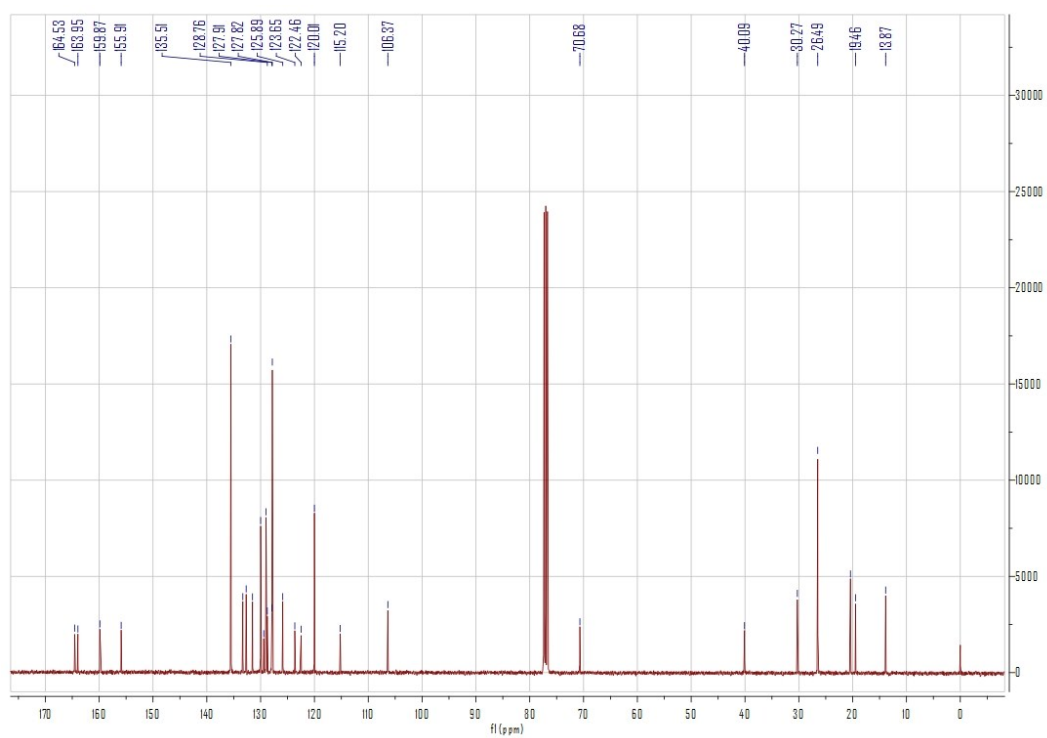


**Fig.S1.** The photostability of the probe (5  $\mu$ M) detected in PBS-DMSO.( v/v = 1/9, pH=7.4, PBS=10 mM).  $\lambda_{ex}$  = 300 nm, Slit width: 5 nm/5 nm.

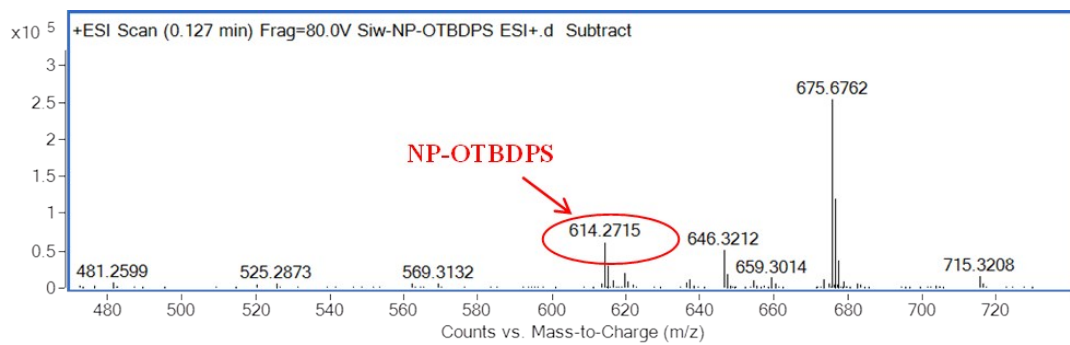
## 2. The characterization data of NP-OTBDPS.



NP-OTBDPS <sup>1</sup>H NMR



NP-OTBDPS <sup>13</sup>C NMR



ESI- MS spectrum of **NP-OTBDPS**