## **Supporting Information**

## A highly sensitive and selective fluorescent probe for nitroxyl based on a naphthalene

## derivative

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Figure S1 <sup>1</sup>H NMR spectrum of compound 2 in DMSO-d<sub>6</sub>.



Figure S2 <sup>13</sup>C NMR spectrum of compound 2 in DMSO-d<sub>6</sub>.



Figure S3. EI-MS spectrum of compound 2.



Figure S4 <sup>1</sup>H NMR spectrum of compound 1 in CDCl<sub>3</sub>.



Figure S5 <sup>13</sup>C NMR spectrum of compound 1 in CDCl<sub>3</sub>.



Figure S6. ESI-MS spectrum of compound 1.



Figure S7 <sup>1</sup>H NMR spectrum of isolated product of probe 1 reacted with AS in DMSO-d<sub>6</sub>.



Figure S8 ESI-MS spectrum of isolated product of probe 1 reacted with AS.