Supramolecular self-assembly of fluorescent peptide amphiphiles for accurate and reversible pH measurement

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**Figure S1.** HPLC elution curve of NBD-PA. The HPLC conditions were as follows: a linear gradient of 10% to 90% of acetonitrile over 25 min at a flow rate of 1.0 mL min⁻¹, detected at 254 nm. *: The peak of NBD-PAs. Purity: >90%.

**Figure S2.** ¹H NMR spectrum of NBD-PA (300 MHz, DMSO).

¹H NMR (300 MHz, DMSO)  δ 8.51-7.68 (d, J = 9 Hz, 8H), 7.48 (d, J = 6 Hz, 1H), 6.43 (d, J = 9 Hz, 1H), 4.48 (m, 2H), 4.26 (m, 2H), 4.16 (m, 2H), 4.02 (m, 2H), 3.01 (m, 2H), 2.65 (m, 1H), 2.60 (m, 1H), 2.37 (t, J = 3.6 Hz, 2H), 2.13 (d, J = 6.4 Hz, 2H), 1.95 (d, J = 9, 6 Hz, 2H), 1.46 (m, 3H), 1.32 (m, 3H), 1.22 – 1.15 (m, 20H), 0.85 – 0.79 (m, 12H).
Figure S3. TOF-MS spectrum of NBD-PA: m/z 1018.6 [M-H].

Figure S4. The curves used to determine the CMC value of NBD-PA.