Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Supplementary Information

Reorganization of Self-Assembled Supramolecular Materials Controlled by Hydrogen Bonding and Hydrophilic-Lipophilic Balance

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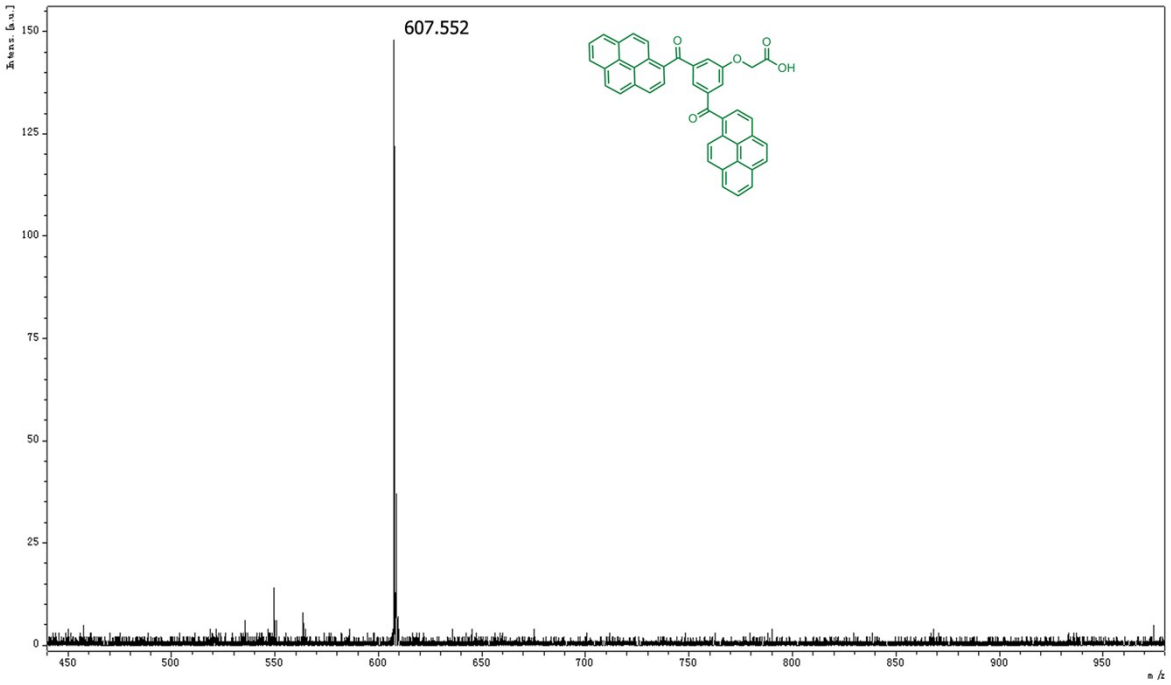

Figure S1. The MALDI-TOF-MS spectrum of BP-COOH.

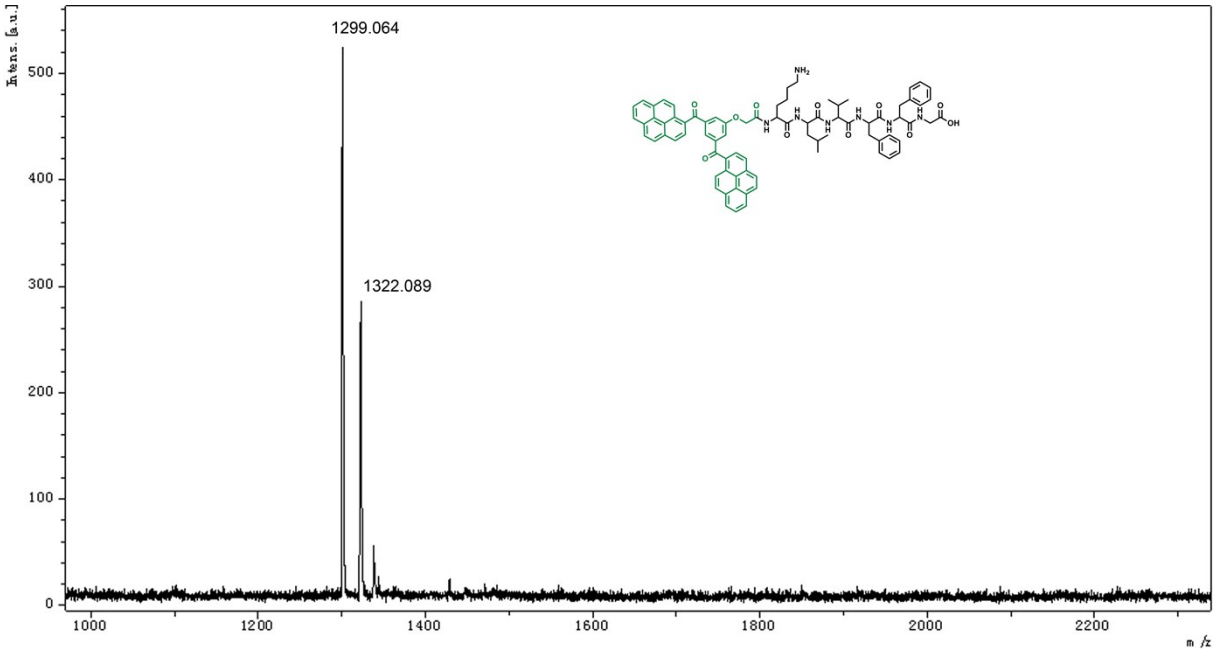

Figure S2. The MALDI-TOF-MS spectrum of BP-KLVFFG (BK).

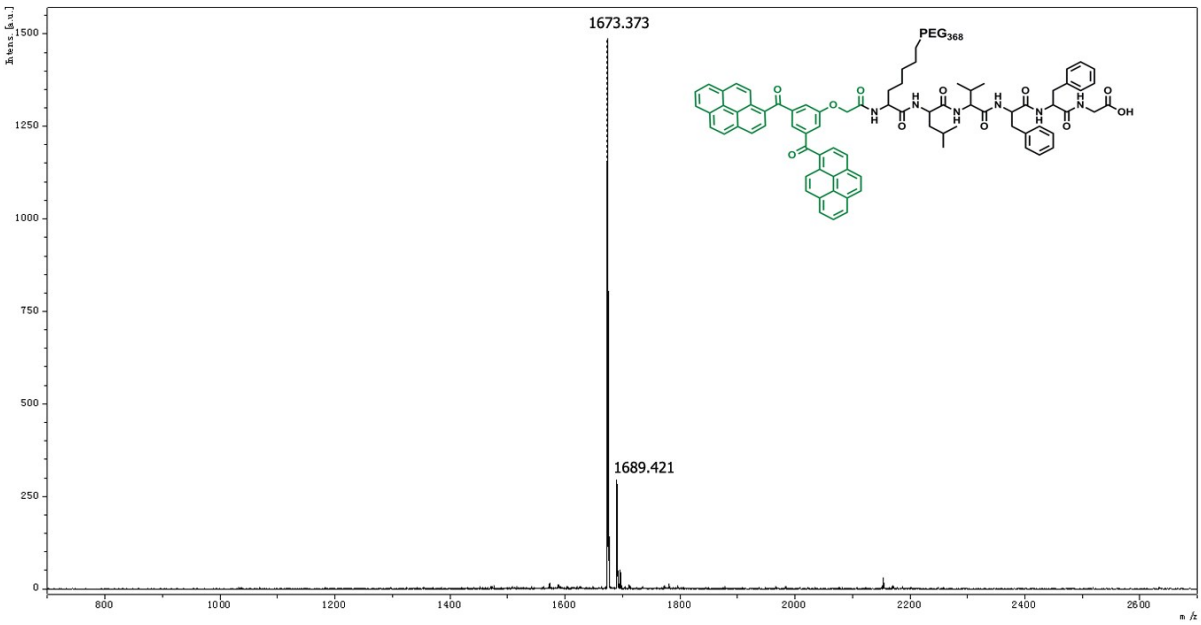

Figure S3. The MALDI-TOF-MS spectrum of BP-KLVFFG-PEG_{368} (BKP1).

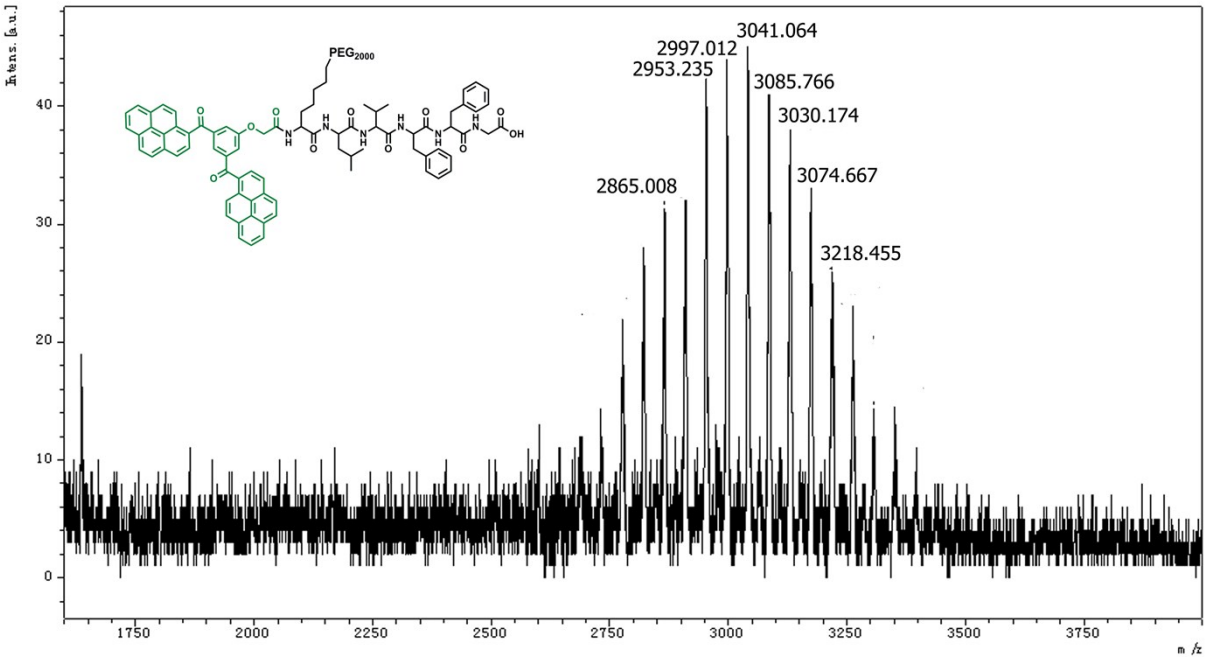

Figure S4. The MALDI-TOF-MS spectrum of BP-KLVFFG-PEG_{2000} (BKP3).

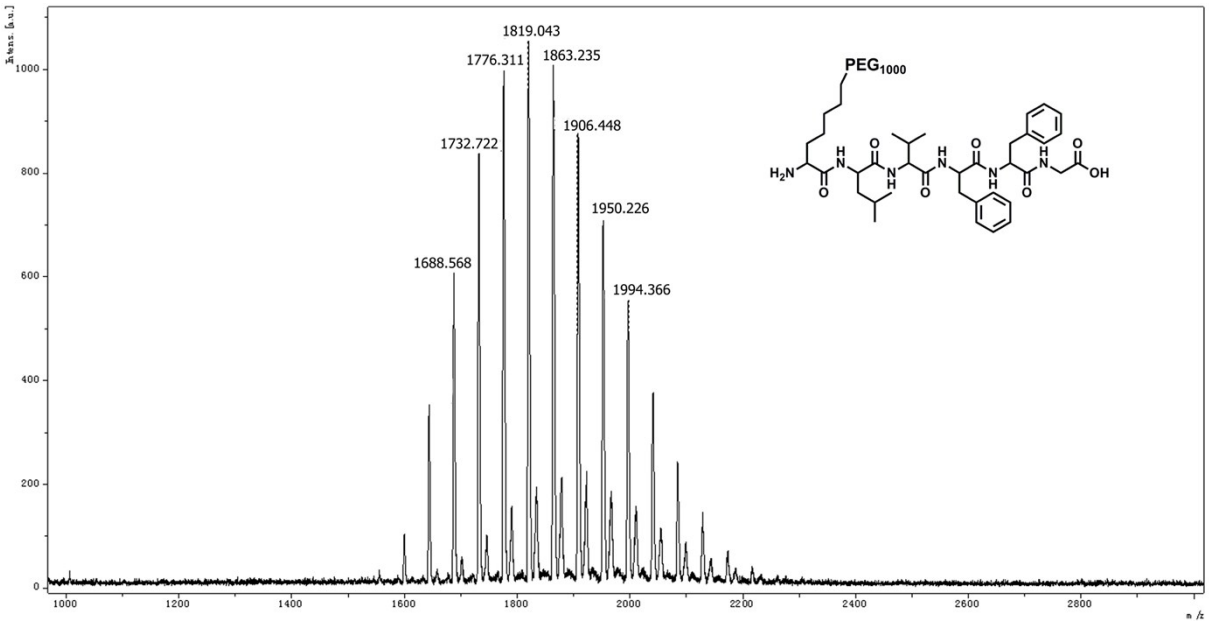

Figure S5. The MALDI-TOF-MS spectrum of KLVFFG-PEG_{1000} (KP2).

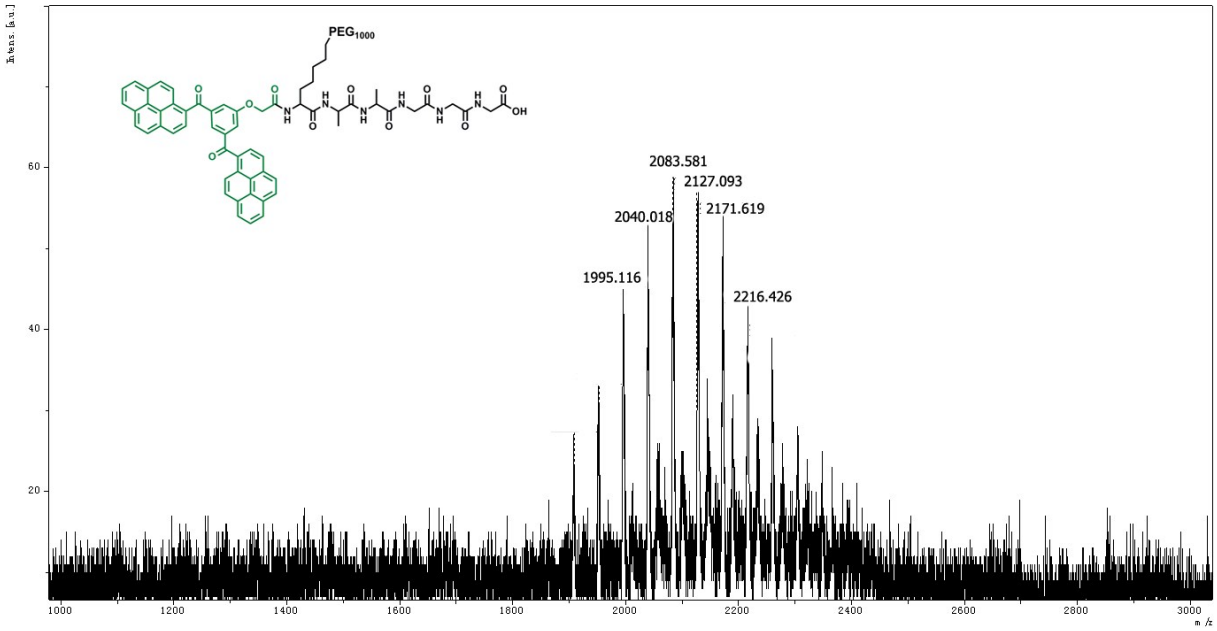

Figure S6. The MALDI-TOF-MS spectrum of BP-KAAGGG-PEG_{1000} (BAP2).

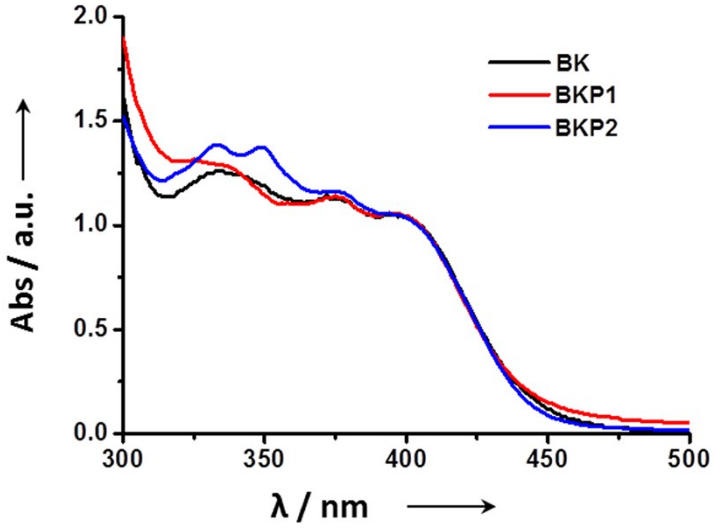

Figure S7. UV-vis spectra of 2.0×10^{-5} M BK, BKP1, BKP2 in water with 1% DMSO.

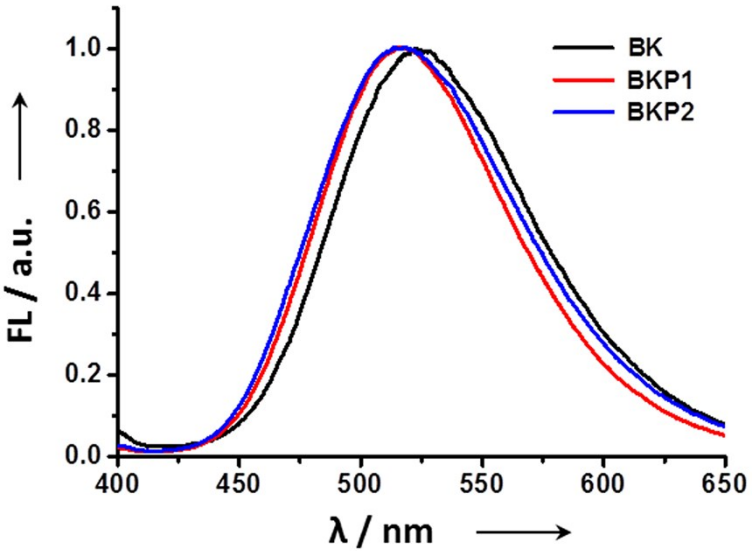

Figure S8. The fluorescence spectra of BK, BKP1 and BKP2 with 2.0×10^{-5} M in water with 1% DMSO at 20 °C, Ex = 350 nm.

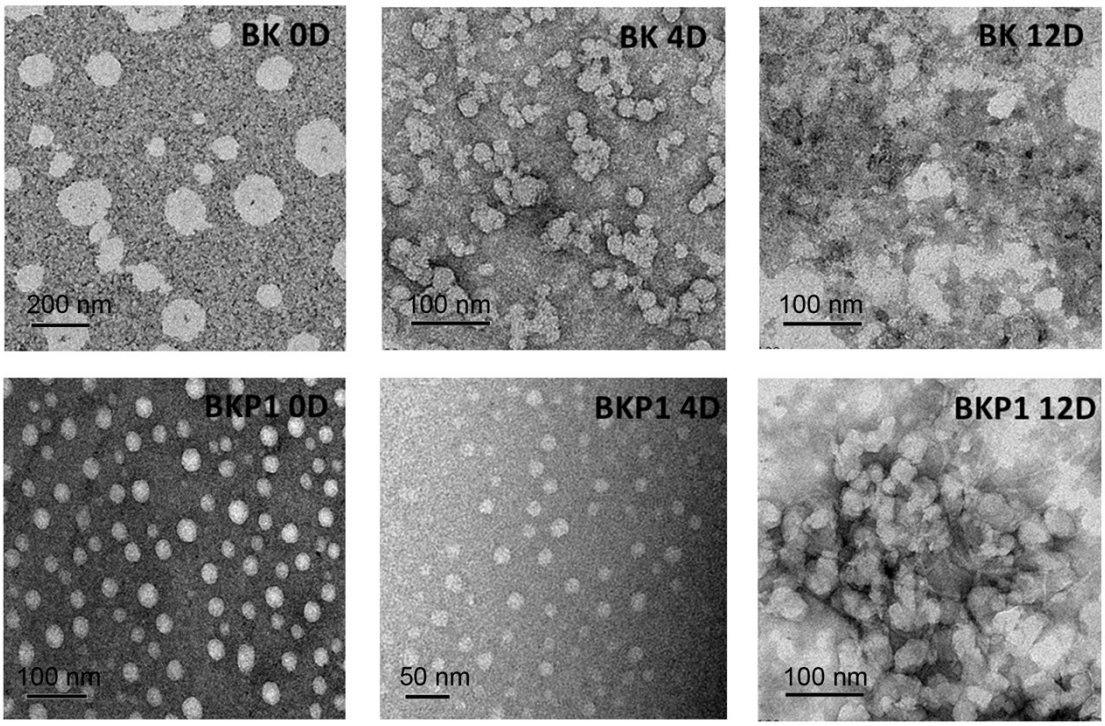

Figure S9. The morphology transformation of BK and BKP1 (2.0×10^{-5} M) in water (1% DMSO) observed by TEM with the time increasing (Up: BK; Down: BKP1).

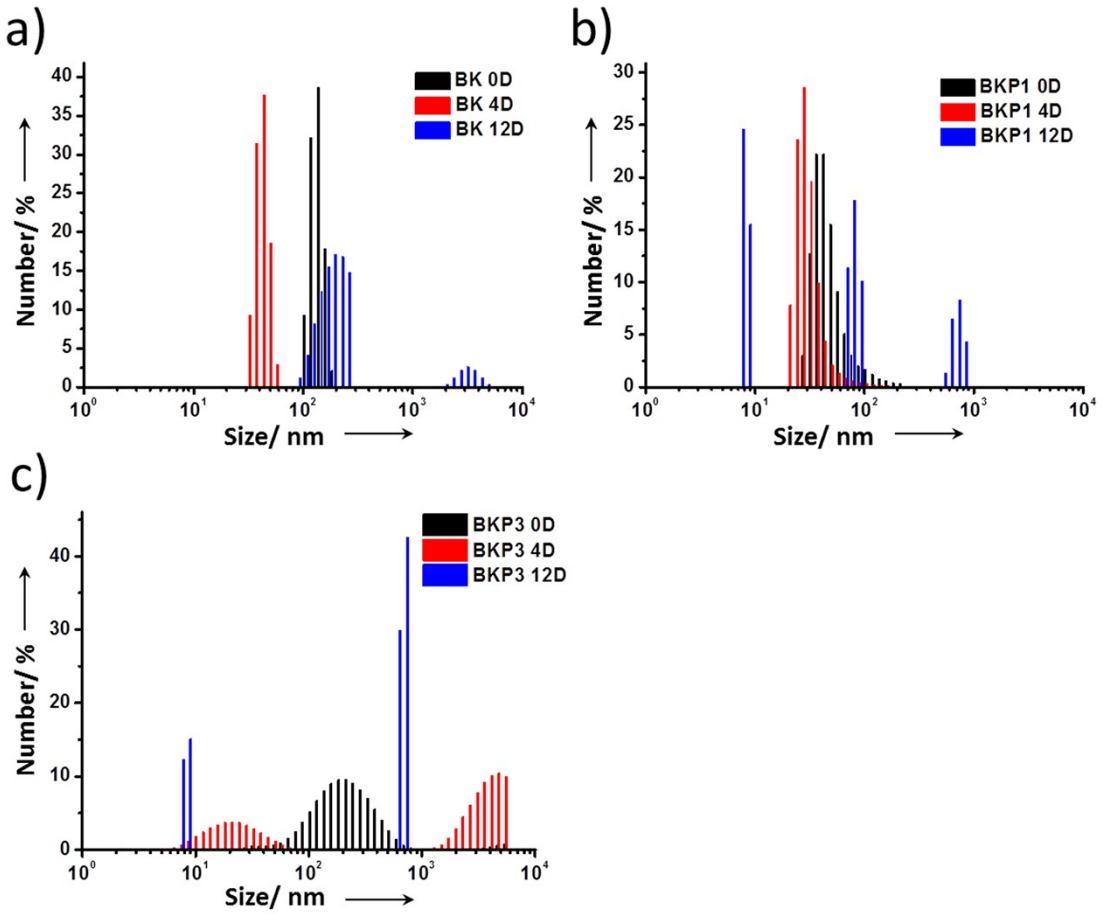

Figure S10. The DLS of a) BK, b) BKP1, c) BKP3 with time increasing, the concentration of all the solutions was 2.0×10^{-5} M.

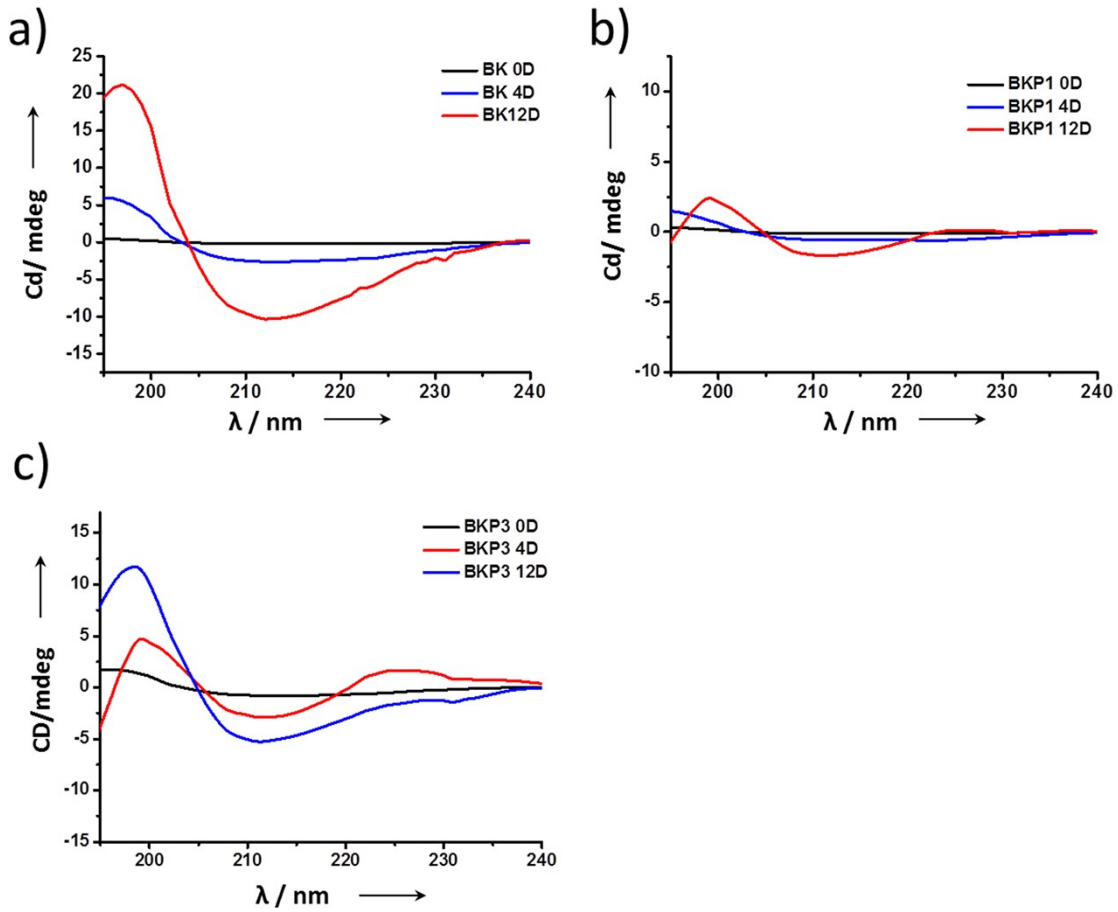

Figure S11. CD spectra of a) BK, b) BKP1, c) BKP3 in water at different time points.

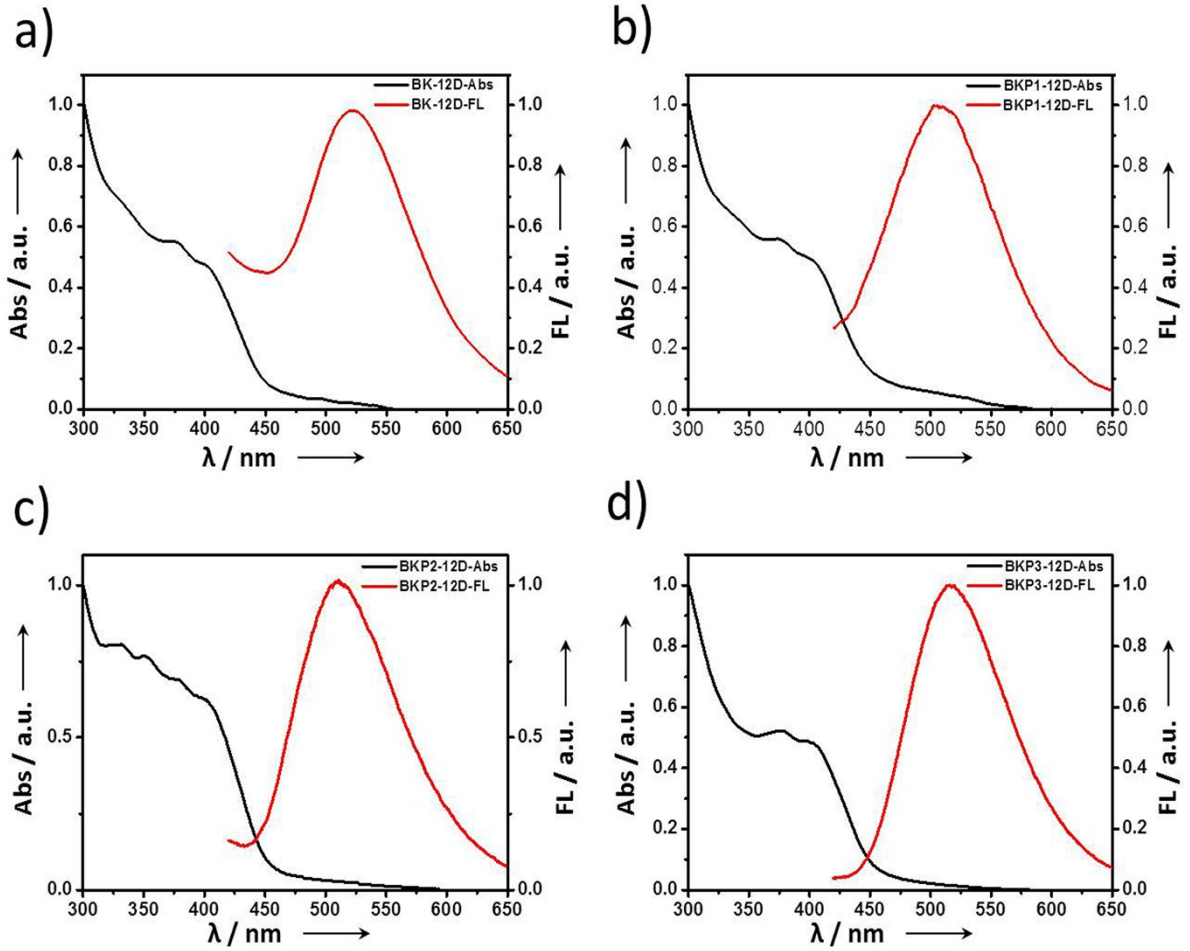

Figure S12. UV-vis and fluorescence spectra of 2.0×10^{-5} M BK, BKP1, BKP2 and BKP3 cultured 12D in water with 1% DMSO.

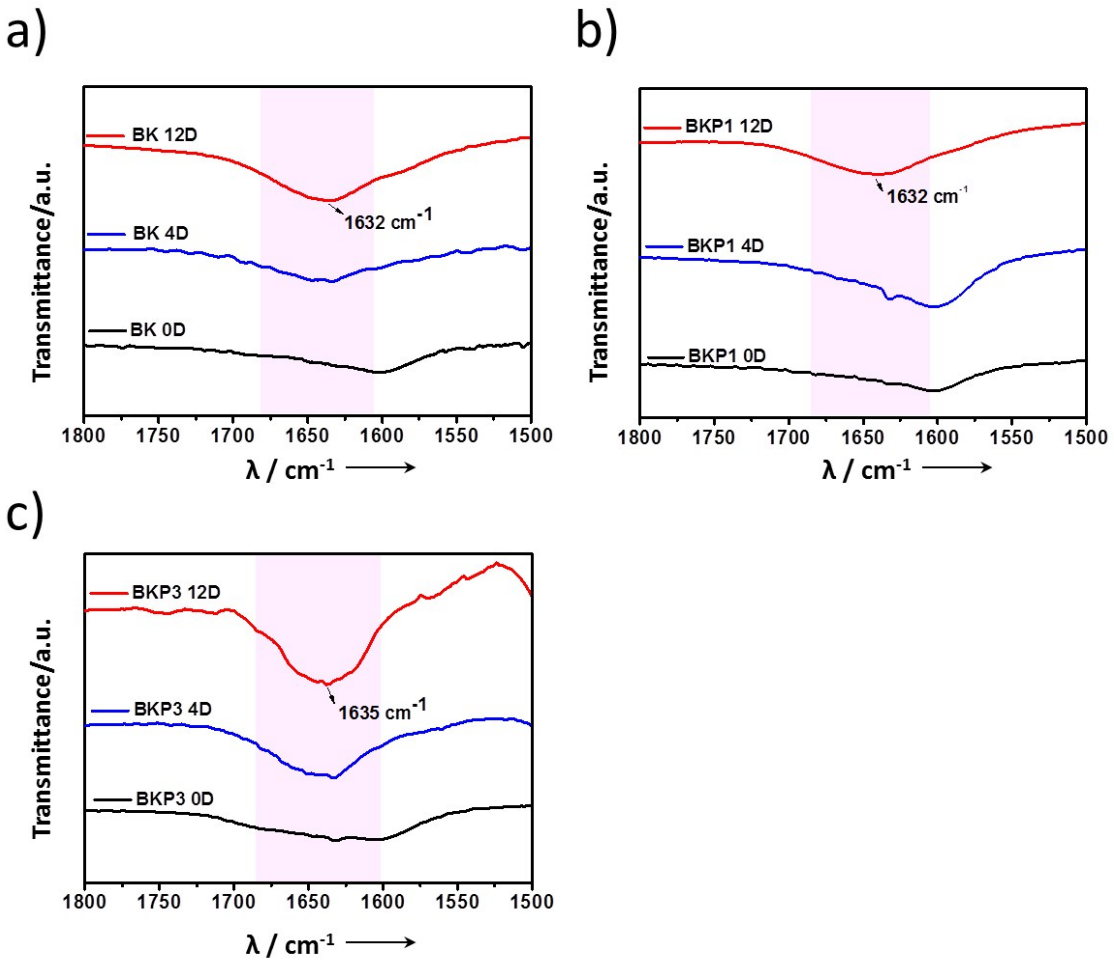

Figure S13. FT-IR spectra indicate the parallel β-sheet secondary structure of a) BK, b) BKP1 and c) BKP3. The concentration of all the solutions was 2.0×10^{-5} M.

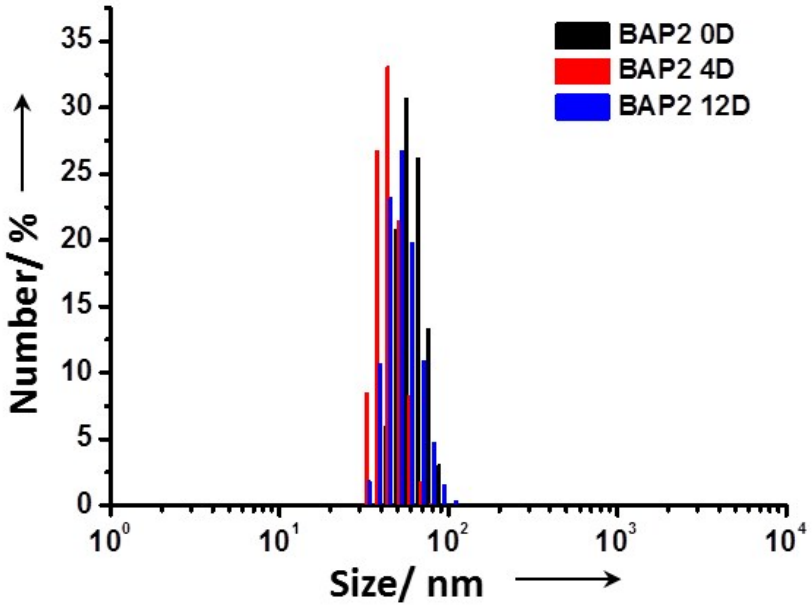

Figure S14. The DLS of BAP2 with time increasing, the concentration was 2.0×10^{-5} M.

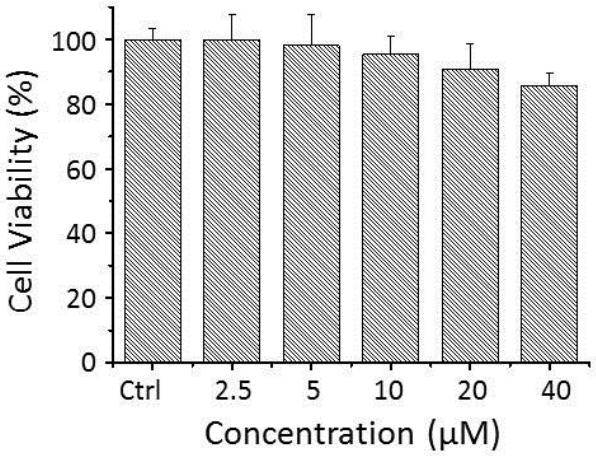

Figure S15. The cytotoxicity of BKP2 for Hela cells upon treatment with a series of concentrations (0-40 μM).