

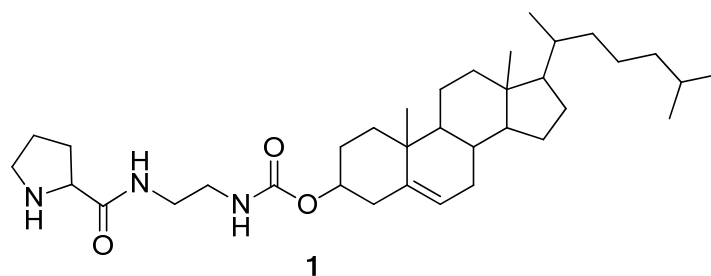
# **Supporting Information**

## **Visual Detection of Amino Acids by Supramolecular Gel Collapse**

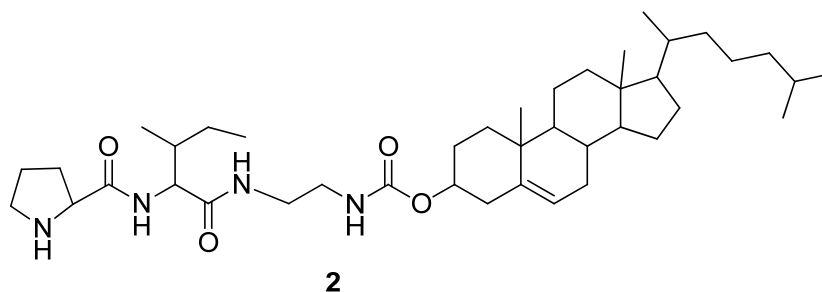
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- 1. Spectral data of the gelators**
- 2.  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR Spectras of the gelators**

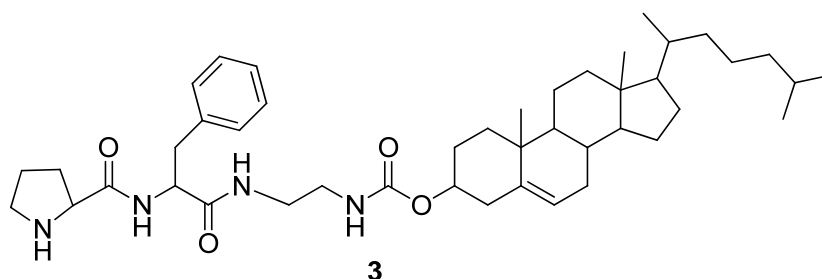
## 1. Spectral data of the gelators:



$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )  $\delta$  = 7.92 (s, 1H), 5.36 (s, 1H), 5.30 (s, 1H), 4.47-4.49 (t, 1H,  $J$  = 5.2Hz), 3.72-3.76 (m, 1H), 3.26-3.36 (m, 4H), 2.88-3.04 (m, 2H), 2.51 (s, 2H), 2.23-2.32 (m, 2H), 2.09-2.18 (m, 1H), 1.81-2.02 (m, 6H), 1.67-1.74 (m, 2H), 0.86-1.56 (m, 35H);  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)  $\delta$  = 11.8, 18.7, 19.3, 21.0, 22.6, 22.8, 23.8, 24.3, 26.1, 28.0, 28.1, 28.2, 30.7, 31.9, 35.8, 36.2, 36.5, 37.0, 38.5, 39.2, 39.5, 39.7, 41.1, 42.3, 47.2, 50.0, 56.1, 56.7, 60.5, 74.3, 122.4, 139.8, 156.6, 176.1; HRMS (ESI)  $m/z$  calcd for  $\text{C}_{35}\text{H}_{59}\text{N}_3\text{O}_3$   $[\text{M}+\text{H}]^+$  570.4635, found 570.4625.



$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )  $\delta$  = 8.21-8.23 (d, 1H,  $J$  = 9.2Hz), 7.37 (s, 1H), 5.53 (s, 1H), 5.36-5.37 (d, 1H,  $J$  = 2.7Hz), 4.44 (s, 1H), 4.21-4.25 (t, 1H,  $J$  = 7.7Hz), 3.76-3.79 (m, 1H), 3.29-3.41 (m, 4H), 2.91-3.06 (m, 2H), 2.10-2.40 (m, 5H), 1.69-2.02 (m, 9H), 0.86-1.56 (m, 43H);  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)  $\delta$  = 11.3, 11.8, 15.7, 18.7, 19.3, 21.0, 22.5, 22.8, 23.8, 24.3, 24.7, 26.2, 28.0, 28.1, 28.2, 30.9, 31.8, 31.9, 35.8, 36.2, 36.5, 36.8, 37.0, 38.6, 39.5, 39.7, 40.2, 40.6, 42.3, 47.2, 50.0, 56.1, 56.7, 57.4, 60.5, 74.5, 122.5, 139.8, 156.9, 172.0, 175.7; HRMS (ESI)  $m/z$  calcd for  $\text{C}_{41}\text{H}_{70}\text{N}_4\text{O}_4$   $[\text{M}+\text{H}]^+$  683.5475, found 683.5464.



$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )  $\delta$  = 8.14-8.16 (d, 1H,  $J$  = 8.4Hz), 7.28-7.30 (d, 1H,  $J$  = 8.5Hz), 7.22-7.26 (t, 2H,  $J$  = 19.2Hz), 7.16-7.20 (t, 3H,  $J$  = 7.6Hz), 5.35-5.36 (d, 1H,  $J$  = 4.0Hz), 5.29 (s, 1H), 4.60-4.66 (m, 1H), 4.42-4.44 (t, 1H,  $J$  = 5.2Hz), 3.66-3.70 (m, 1H), 3.14-3.32 (m, 5H), 2.88-3.01 (m, 2H), 2.71-2.77 (m, 1H), 2.49 (s, 2H), 2.22-2.34 (m, 2H), 1.83-2.04 (m, 6H), 0.86-1.66 (m, 39H);  $^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz)  $\delta$  = 11.9, 18.7, 19.3, 21.0, 22.6, 22.8, 23.8, 24.3, 25.9, 28.0, 28.1, 28.2, 30.5, 31.9, 31.9, 35.8, 36.2, 36.6, 3.0, 38.2, 38.6, 39.5, 39.7, 40.3, 40.4, 42.3, 47.1, 50.0, 53.8, 56.1, 56.7, 60.3, 63.8, 74.6, 122.5, 126.9, 128.5, 128.6, 129.3, 136.9, 139.8, 156.9, 171.7, 175.7; HRMS (ESI)  $m/z$  calcd for  $\text{C}_{44}\text{H}_{68}\text{N}_4\text{O}_4$   $[\text{M}+\text{H}]^+$  717.5319, found 717.5331.

2. <sup>1</sup>H NMR and <sup>13</sup>C NMR Spectras of the gelators

