Supporting Information

Phase Transition Behaviors of Poly(*N*-isopropylacrylamide) Nanogels with Different Compositions Induced by (–)-Epigallocatechin-3-gallate and Ethyl Gallate

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Supplementary Figures S1 and S2

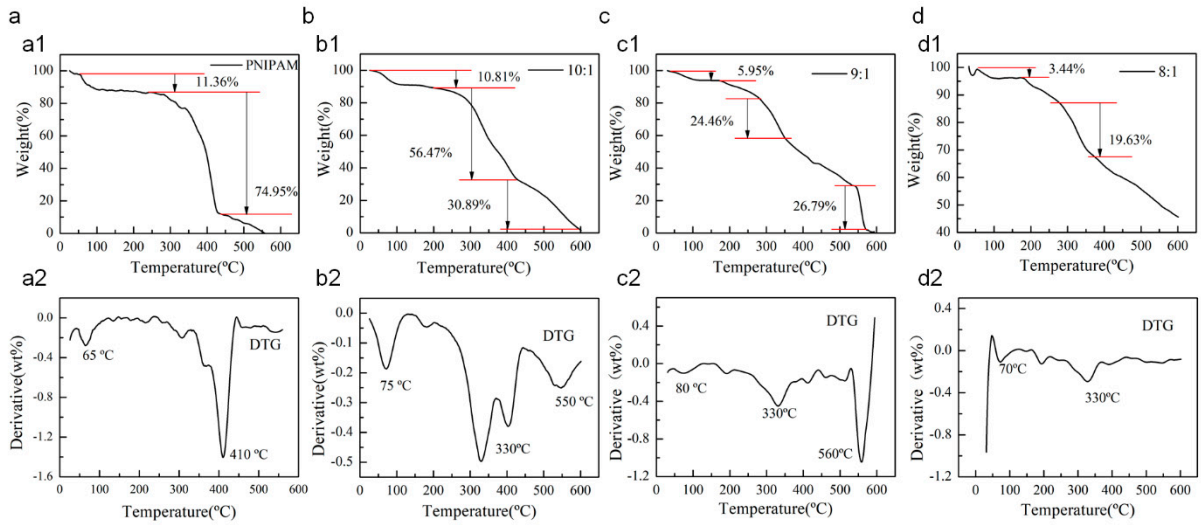

Figure S1. TGA (a1, b1, c1, d1) and DTG (a2, b2, c2, d2) curves from 25 to 600 °C of the PNIPAM microgels (a) and P(NIPAM-*co*-NMAM) nanogels with different monomer ratios of 10:1 (b), 9:1 (c), and 8:1 (d).

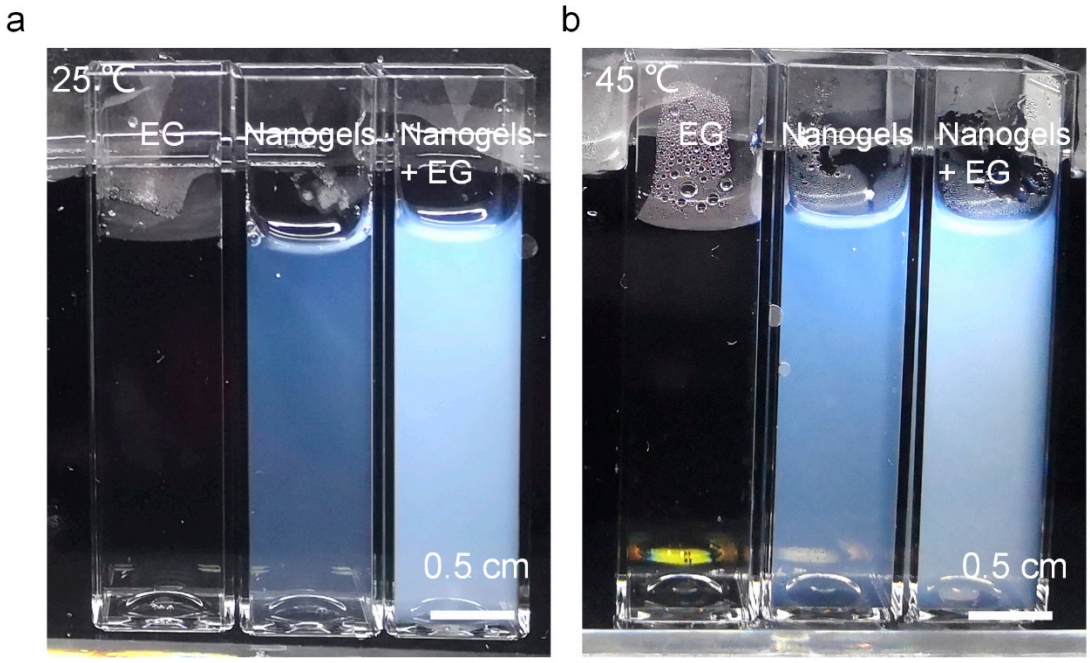

Figure S2. Optical images of EG, nanogels, and nanogels + EG in aqueous solution at 25 ℃ (a) and 45 ℃ (b). The PNIPAM-*co*-HEMA nanogels with monomer ratio of 99:1 (5 mg/mL) were used. The concentration of EG is 10 mmol/L.

Table S1 PDI of P(NIPAM-*co*-HEMA) nanogels in water at 25 ℃

Nanogels with different monomer ratios	PDI
NIPAM：HEMA = 99:1	0.066
NIPAM：HEMA = 95:5	0.158
NIPAM：HEMA = 90:10	0.047
NIPAM：HEMA = 80:20	0.087

Table S2 PDI of P(NIPAM-*co*-HEMA) nanogels with NIPAM:HEAM = 95:5 in 10 mmol/L EGCG at different temperatures

Temperatures (℃)	PDI
5	0.110
9	0.107
13	0.117
17	0.096
21	0.109
25	0.1
29	0.11
33	0.089
37	0.108
41	0.095
45	0.102