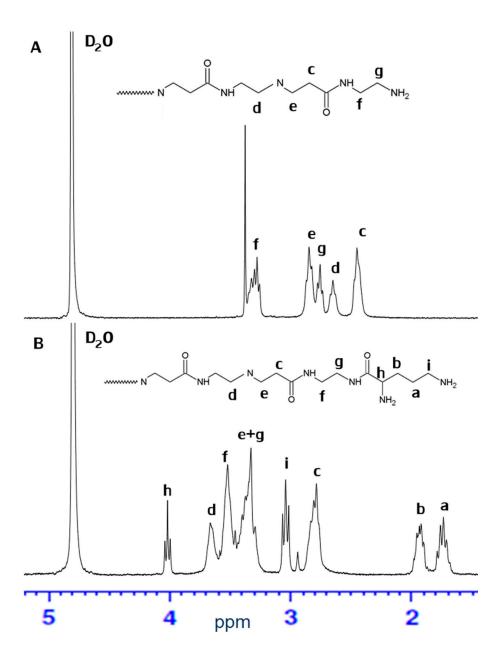
Supporting information

Supplementary Figures and Figure Legends.

Supplementary Figure S1. Overall synthesis scheme of PAMAM-O.

Supplementary Figure S2. ¹H-nuclear magnetic resonance (NMR) spectroscopy of the PAMAM-O dendrimer. (A) PAMAM and (B) PAMAM-O.



The ¹H NMR (300 MHz, D₂O) data of the polymers are as follows. (A) **PAMAM:** δ (ppm) 2.44 (-NCH₂C H_2 CO- of PAMAM unit), 2.63 (-CONHCH₂C H_2 N- of PAMAM unit), 2.83 (-NC H_2 CH₂CO- of PAMAM unit), and 3.35 (-NC H_2 CH₂CO of PAMAM unit). (B) **PAMAM-O:** δ (ppm) 1.73 (-HCCH₂C H_2 CH₂NH- of ornithine unit), 1.98 (-HCC H_2 CH₂CH₂NH- of ornithine

unit), 2.81 (-NCH₂CH₂CO- of PAMAM unit), 3.06 (-HCCH₂CH₂CH₂NH- of ornithine unit), 3.31 (-NCH₂CH₂CO- and -CONHCH₂CH₂- of PAMAM unit), 3.54 (-CONHCH₂CH₂- of PAMAM unit), 3.68 (-CONHCH₂CH₂N- of PAMAM unit), and 4.03 (-HCCH₂CH₂CH₂NH- of ornithine unit). The conjugation yield (over 95%) was calculated from the result of ¹H NMR.