Supplementary information

Drug-polymer conjugates with dynamic cloud point temperatures based on poly(2-oxazoline) copolymers

Jong-Ryul Park,[a] Mariah Sarwat,[a] Eleonore C.L. Bolle,[a] Melody A. de Laat,[a] Joachim F. R. Van Guyse,[b] Annelore Podevyn,[b] Richard Hoogenboom,*[b] and Tim R. Dargaville *[a]

[a]*Institute of Health and Biomedical Innovation, Science and Engineering Faculty, Queensland University of Technology, Queensland 4001, Australia.*
[b]*Supramolecular Chemistry Group, Centre of Macromolecular Chemistry (CMaC), Department of Organic and Macromolecular Chemistry, Ghent University, Krijgslaan 281 S4, B-9000 Ghent, Belgium.*

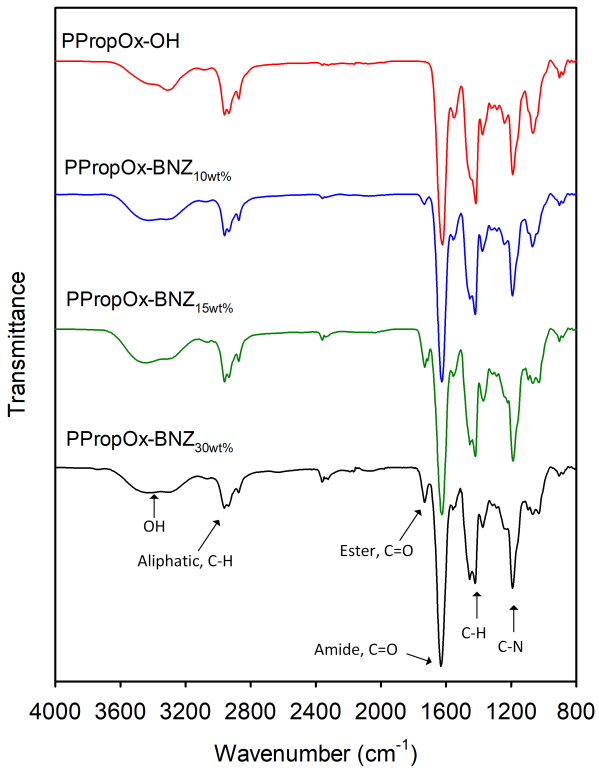

Fig. S1 FTIR spectra of PPropOx-OH and PPropOx-BNZ conjugates. The ester absorbance at 1730 cm^1 increased with increasing BNZ loading content.

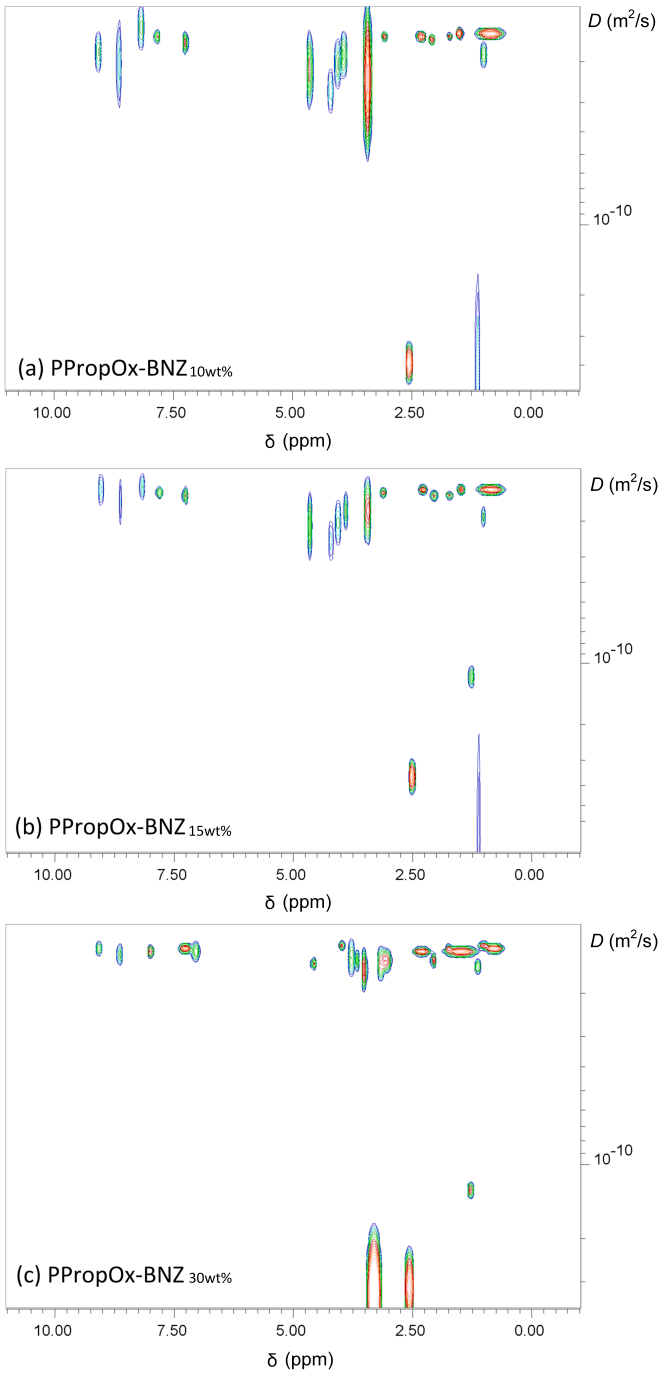

Fig. S2 DOSY NMR spectra for PPropOx-BNZ conjugates. Vertical axis represents the diffusion coefficient and horizontal axis indicates chemical shifts.

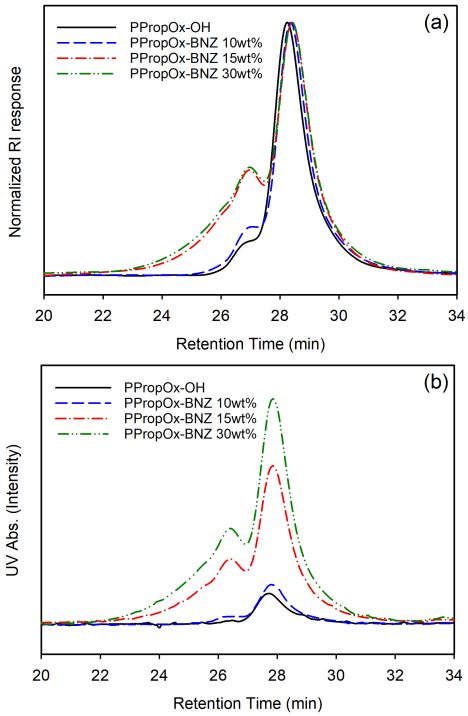

Fig. S3 SEC chromatograms of PPropOx-OH and PPropOx-BNZ conjugates. (a) UV absorbance at 300 nm (b) normalized with RI response. (Eluent = DMAc)

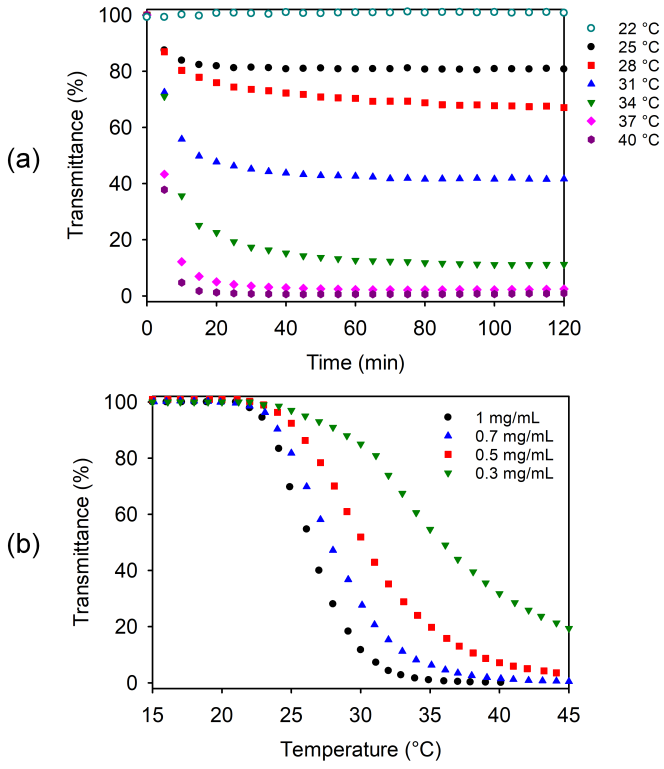

Fig. S4 Isothermal aggregation kinetics of PPropOx-BNZ$_{15wt\%}$ with the concentration of 1 mg/mL in various temperatures and (b) turbidity curves upon heating for different concentrations of PPropOx-BNZ$_{15wt\%}$.

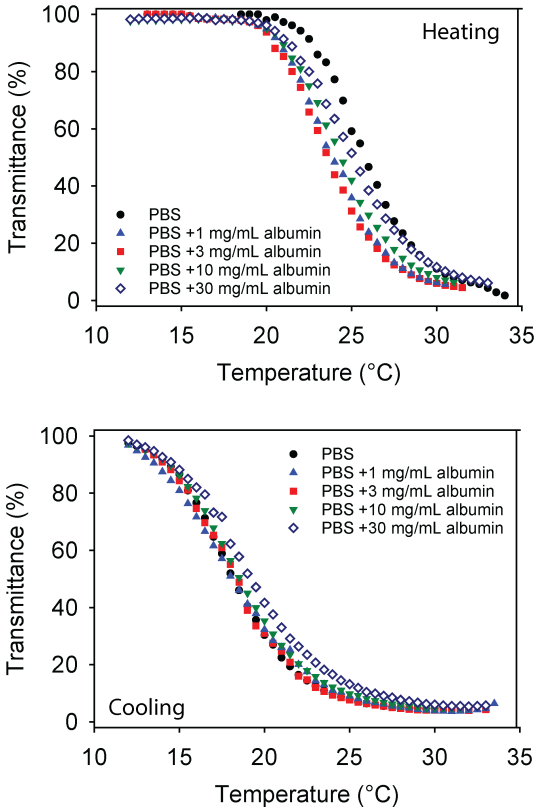

Fig. S5 The curves of turbidity versus temperature of PPropOx-BNZ$_{15wt\%}$ with different amounts of albumin. (Polymer concentration= 1 mg/mL)