

*Supporting Information*

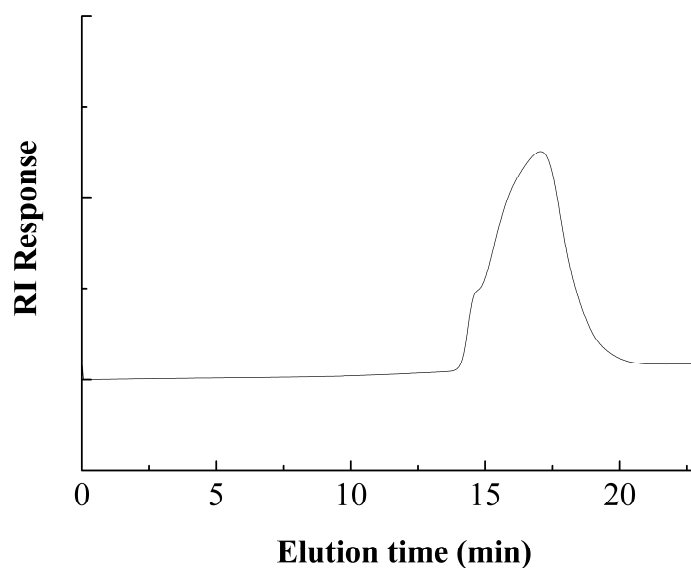
Efficient synthesis of photoresponsive azobenzene-containing side-chain liquid crystalline polymers with high molecular weights by copper(I)- catalyzed polymer analogous click chemistry

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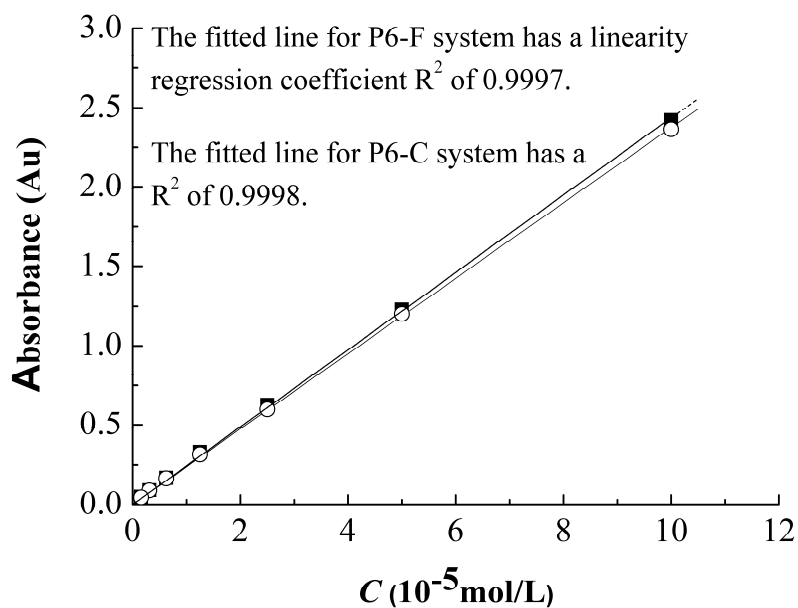
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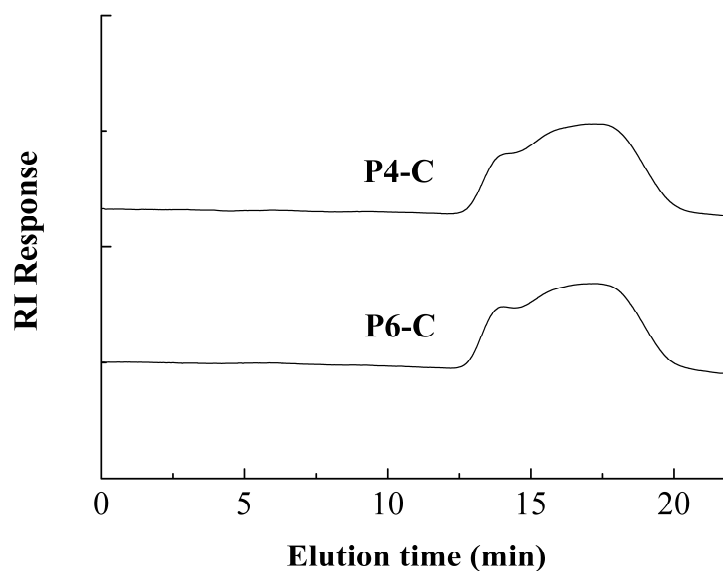
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**Fig. S1** SEC chromatogram of poly(PgMA) with THF as the eluent.



**Fig. S2** Dependence of UV absorbance at 380 nm on polymer concentrations for the solutions of P6-F (filled square) and P6-C (empty circle) in DMF ( $C = 0.156 \times 10^{-5} \sim 10 \times 10^{-5}$  mol/L azo mesogens) at 25 °C.



**Fig. S3** SEC chromatograms of P4-C and P6-C with DMF containing 0.5 wt% LiBr as the eluent.