Supplementary Materials for

Methoxy-group control of helical pitch in stereoregular poly(2-ethynylmethoxynaphthalene) prepared by Rhodium complex catalyst

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The starting materials, 2-bromo-7-methoxynaphthalene[S1] and 2-bromo-8-methoxynaphthalene[S2] were synthesized according to the reported procedures. The monomers, 7MeO2EN and 8MeO2EN, were synthesized by using the same procedure for 2-ethynlnaphthalene (2EN) described in our previous report [25].

Scheme S1. Synthesis of 7-methoxy-2-ethynlnaphthalene (7MeO2EN) and 8-methoxy-2-ethynlnaphthalene (8MeO2EN).

Supplementary References
Figure S1. $^{13}$C NMR spectra of nMeO2EN monomers ($n=6$, 7, and 8).
Figure S2. Room-temperature $^{13}$C CPMAS NMR spectra of poly(1), poly(3), and poly(5). SSB represents spinning side band.
Figure S3. Resonance Raman spectrum of Resonance Raman spectra of poly(3) ~ poly(6) in the solid state.