

Supporting Information for

Highly Fluorescent Columnar Liquid Crystals with Elliptical Molecular Shape: Oblique Molecular Stacking and Excited-State Intramolecular Proton-Transfer Fluorescence

*Jangwon Seo, Sehoon Kim, Se Hoon Gihm, Chong Rae Park, and Soo Young Park**

School of Materials Science and Engineering, Seoul National University, Seoul 151-
744, Korea

*Corresponding author. E-mail: parksy@snu.ac.kr

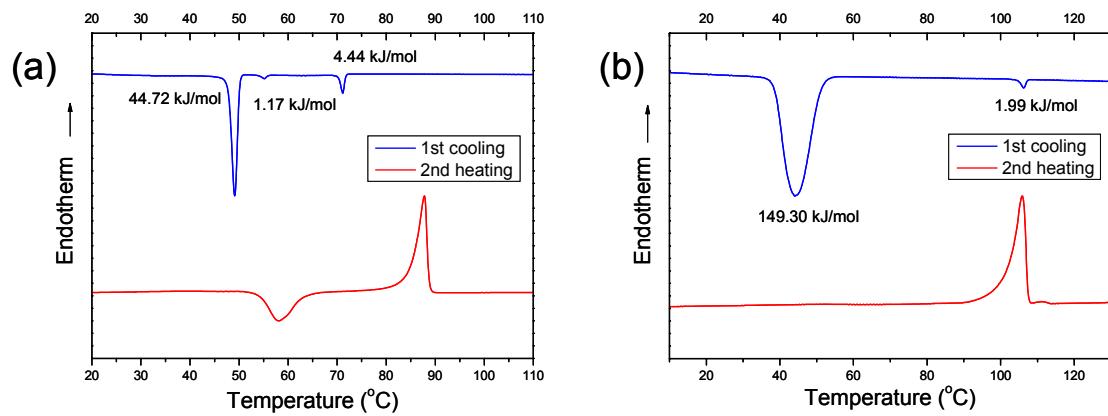


Figure S1. DSC thermograms of (a) DOXG and (b) DOXGBO.

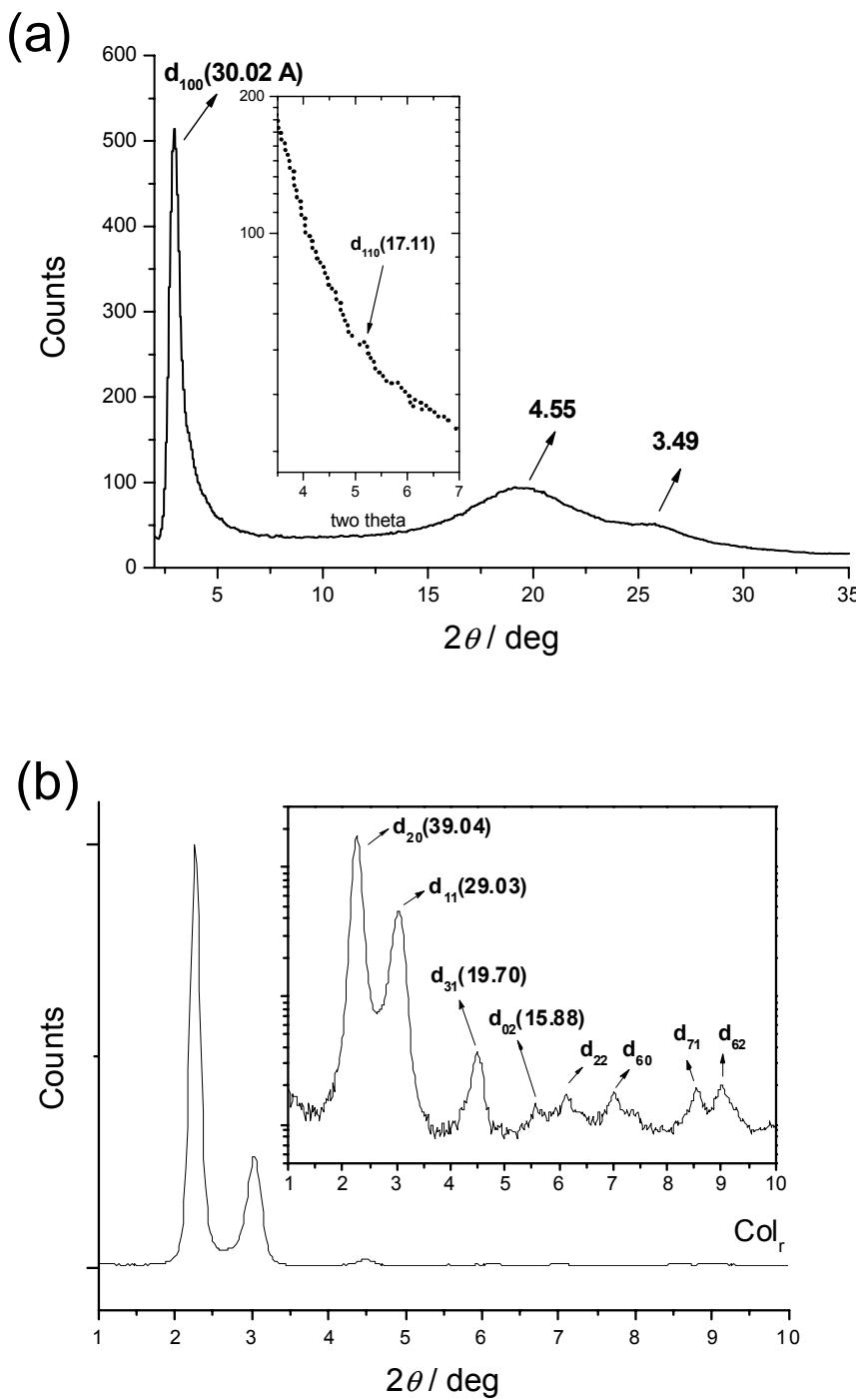


Figure S2. (a) Wide-angle X-ray diffraction pattern of DOXG in the Col_h phase, taken at high temperature ($\sim 65^\circ\text{C}$). (b) Small-angle X-ray diffraction pattern of DOXG in the super-cooled state after annealing (Col_r), taken at room temperature.

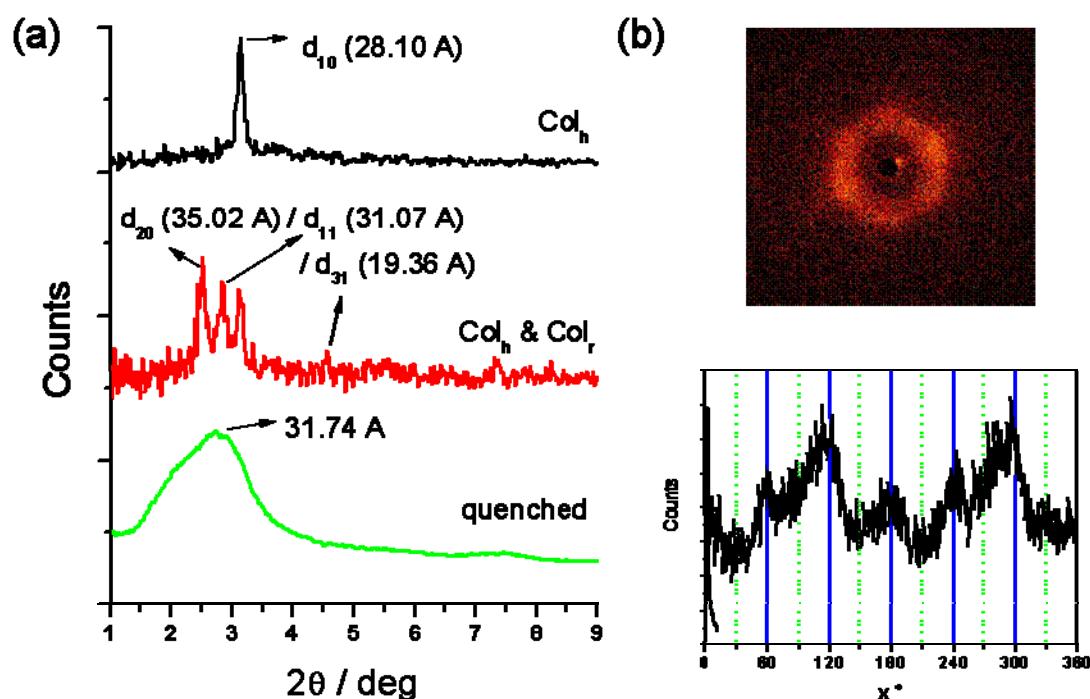


Figure S3. (a) Small-angle X-ray diffraction pattern of DOXGBO in Col_h , Col_r (taken at high temperature), and quenched state after annealing (taken at room temperature). (b) Oriented pattern images in quenched state and its diffraction pattern along X-scan.

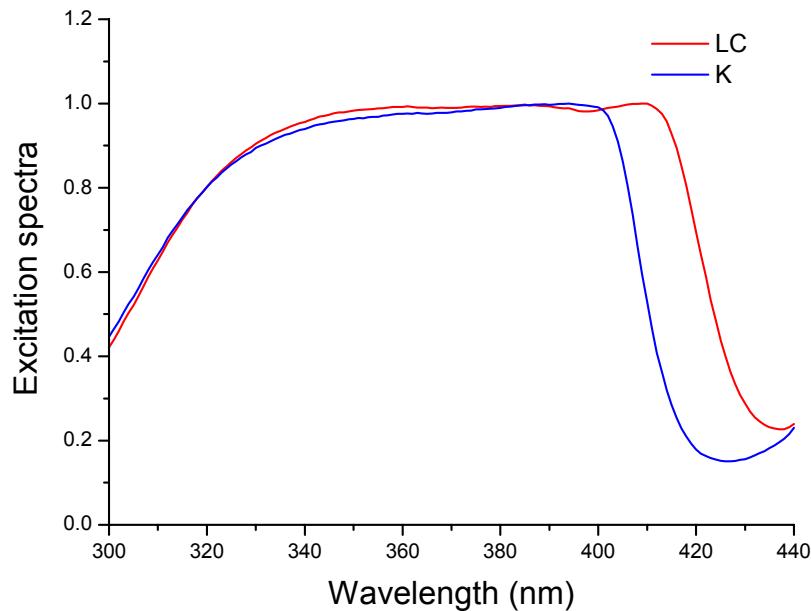


Figure S4. The excitation spectra at 460 nm in Col_h and K phases.