Supporting Information

for

Pentacyclic Aromatic Bislactam-based Conjugated Polymer: Constructed by Beckmann Rearrangement and Application in Organic Field-Effect Transistor

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Figure S1. Thermal gravity analyses (TGA) of **P1** (5% loss, 302 °C) and **P2** (5% loss, 282 °C).



Figure S2. Differential scanning calorimetry (DSC) traces of **P1** and **P2** (scan rate: 10 °C/min). No phase transition was observed.



Figure S3. Calculated molecular orbitals of the trimers of **P1** and **P2** (B3LYP/6-31 G(d)). The alkyl chains were replaced with methyl groups for computational simplicity.



Figure S4. IR spectra of P1 (a) and P2 (b).