Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting Information

Synthesis of End-Functionalized Hydrogen-Bonding Poly(lactic acid)s and Preferential Stereocomplex Crystallization of Their Enantiomeric Blends

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Table S1. Kinetic parameters attained from the isothermal crystallizations of UPy- and non-functionalized PLLA/PDLA blends

sample	T_c = 140 °C			T_c = 160 °C		
	$t_{1/2}$ (min)	k (min^{-n})	n	$t_{1/2}$ (min)	k (min^{-n})	n
U-L-44k/U-D-45k	3.1	3.661	2.2	2.5	0.232	2.1
U-L-62k/U-D-63k	3.1	0.227	1.8	4.4	0.052	2.1
U-L-87k/U-D-82k	5.6	0.028	2.1	16.6	0.019	2.1
L-41k/D-40k	2.5	0.603	1.8	5.3	0.067	1.7
L-58k/D-58k	4.9	0.042	1.9	11.0	0.011	2.0
L-82k/D-91k	8.5	0.004	2.7	23.5	0.001	2.1

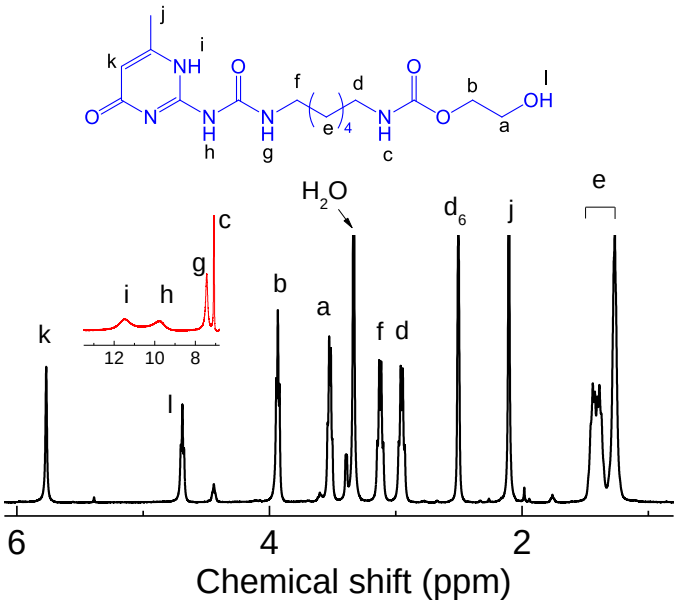

Fig. S1 ^{1}H NMR spectrum of UPy-functionalized initiator, UPy-OH.

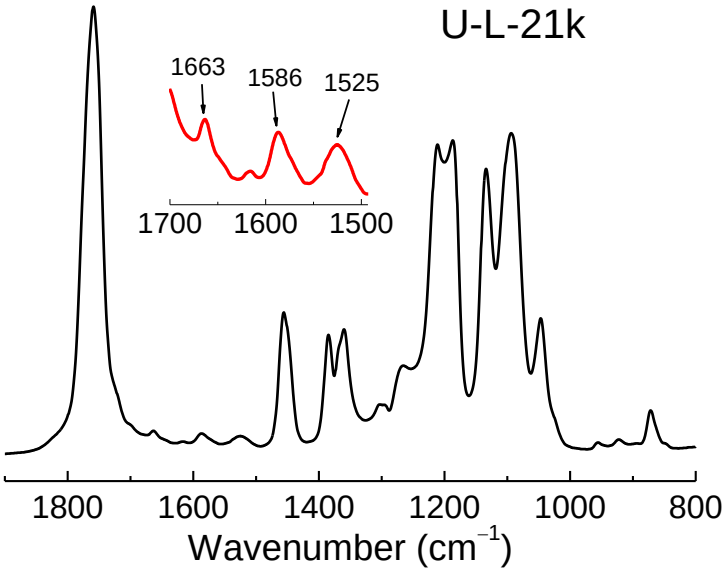

Fig. S2 FTIR spectrum of UPy-functionalized PLLA.

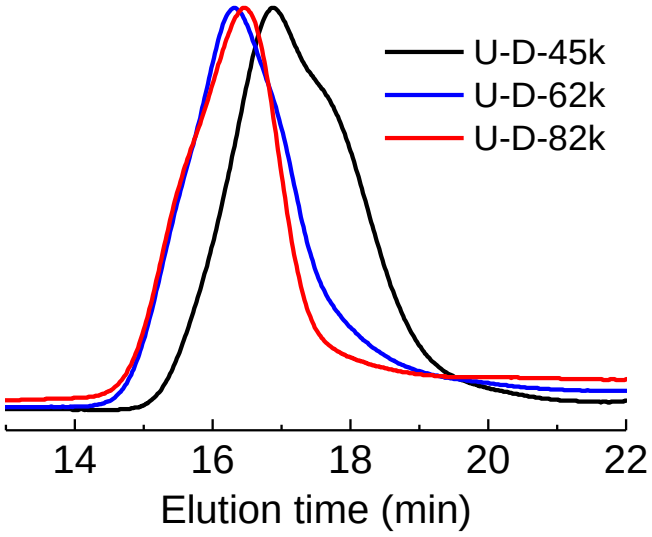

Fig. S3 GPC traces of UPy-functionalized PDLAs with different molecular weights.

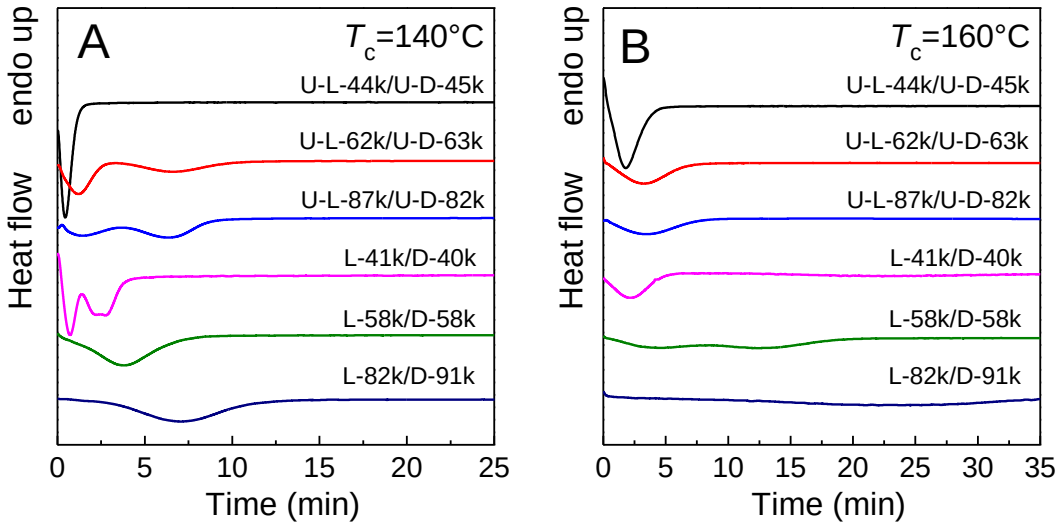

Fig. S4 DSC curves of UPy- and non-functionalized PLLA/PDLA blends recorded in isothermal crystallization at (A) 140 and (B) 160 °C.