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**Supporting Information** 

## Synthesis and Catalytic Application of Magnesium Complexes Bearing Pendant Indolyl

## Ligands

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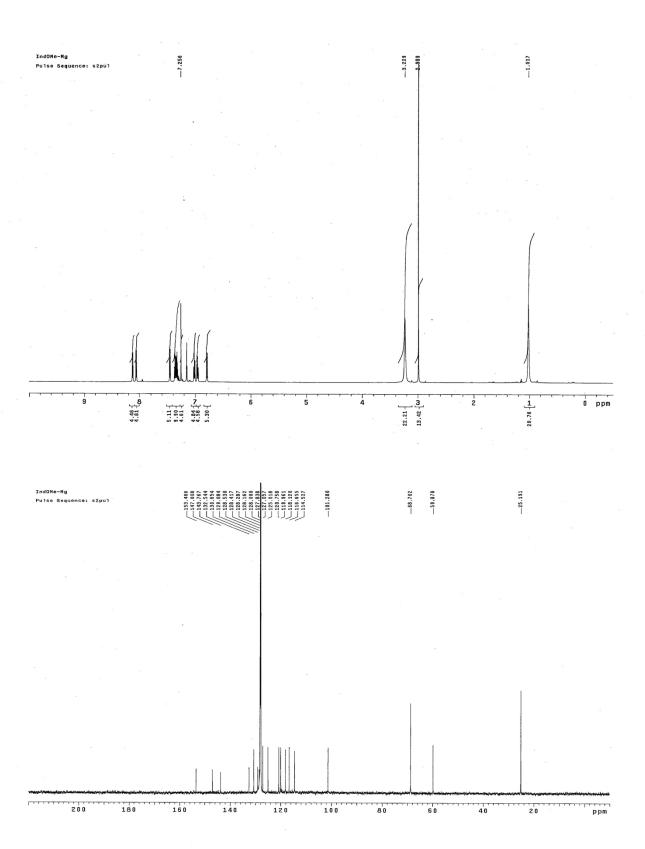


Figure S1. NMR spectra of 3a.

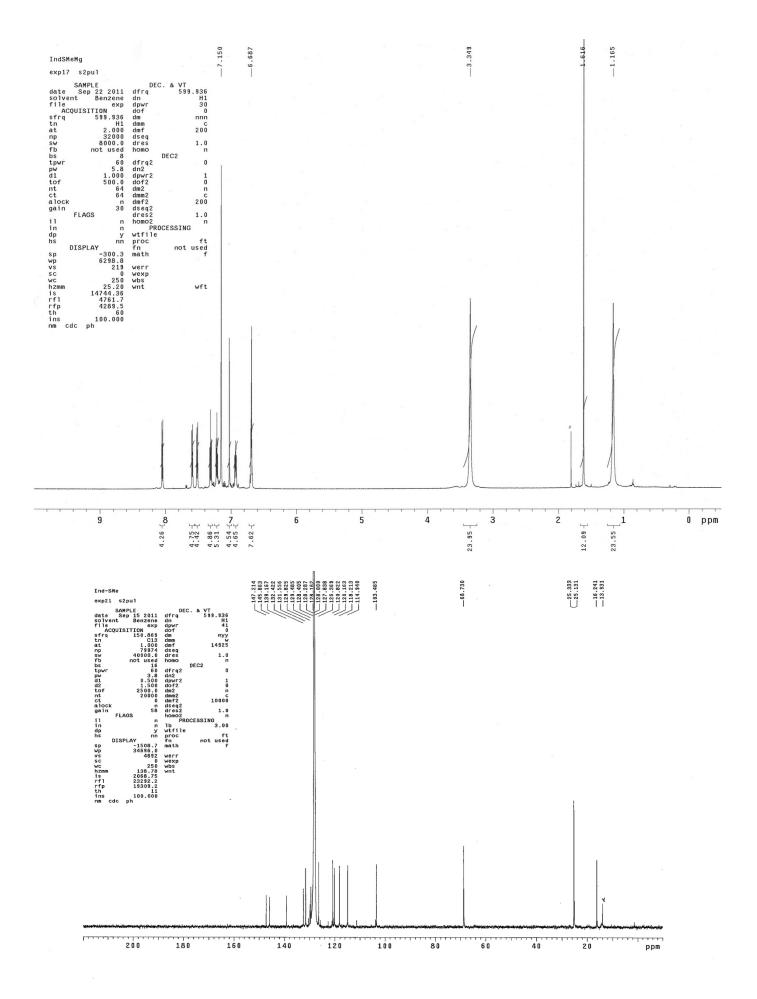
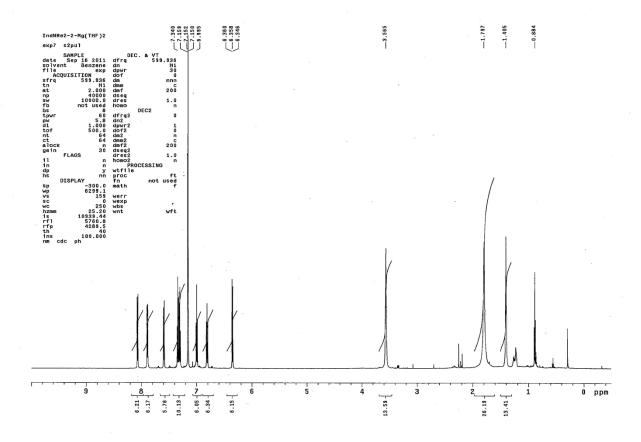


Figure S2. NMR spectra of 3b.



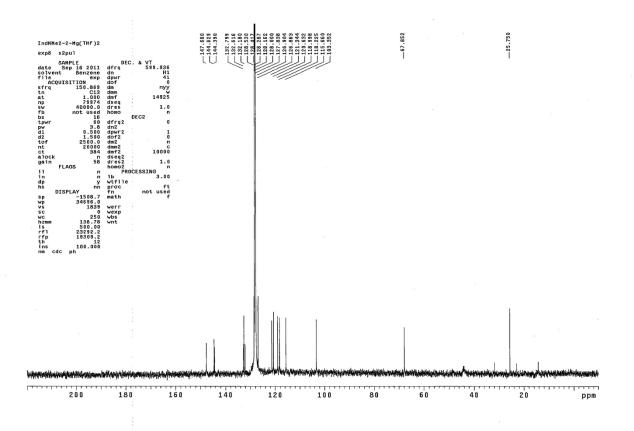
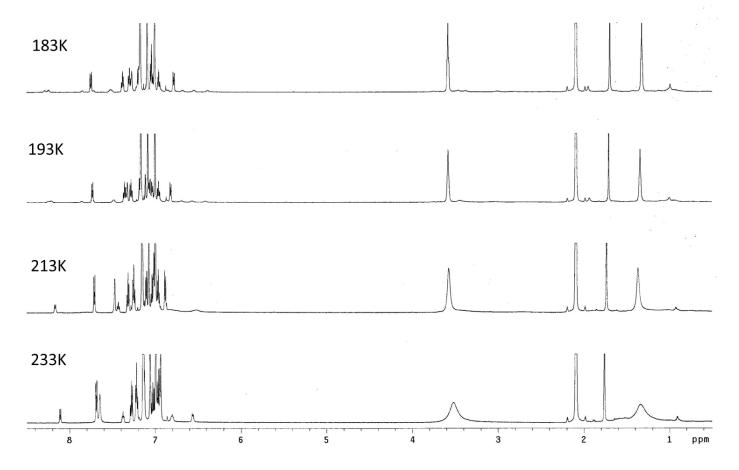


Figure S3 NMR spectra of 3c.



**Figure S4** Variable temperature H NMR spectra for **3b** were performed in  $d_8$ -toluene.

Figure S5 ESI mass spectrum of the oligomer of L-lactide using 3b as catalyst (doped with Na+). Conditions: [LA]<sub>0</sub>:[3b]:[BnOH]= 10:1:1 in 2.5 mL  $CH_2Cl_2,$  at 0  $^{\circ}\!\!\!C$  , 8 min, 89%.

1000

m/z

1200

1400

1600

1800

473.3

400

200

545.3 617.3

600

689.4

800