

Supplementary Information

For Heteroscorpionate Rare-Earth Initiators for the Controlled Ring-Opening Polymerization of Cyclic Esters

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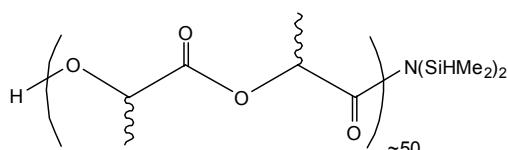
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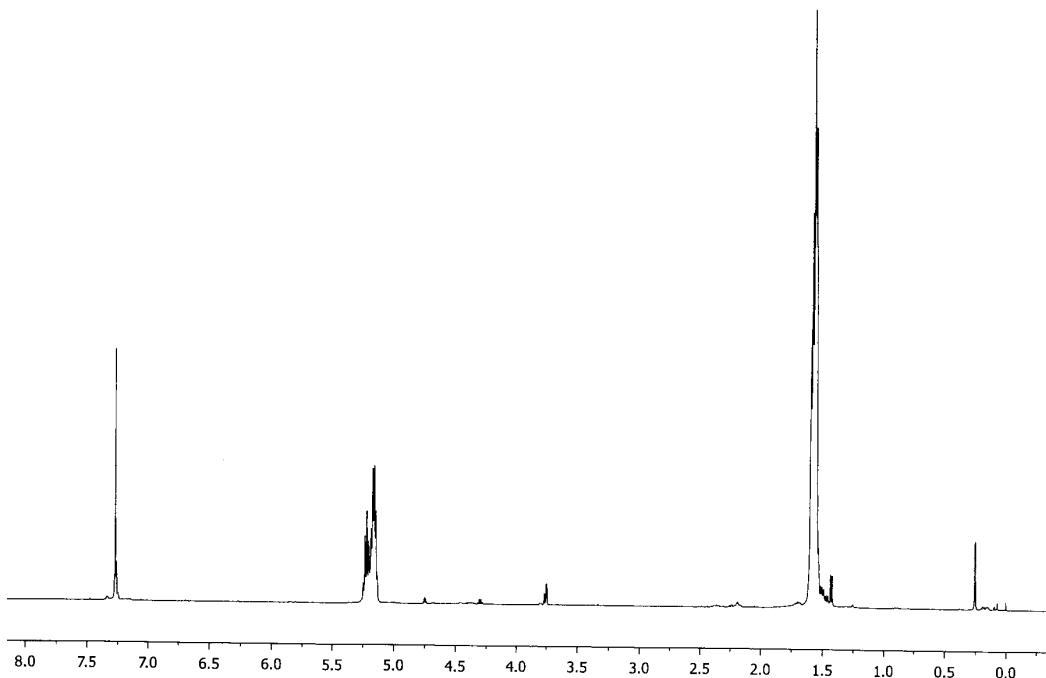


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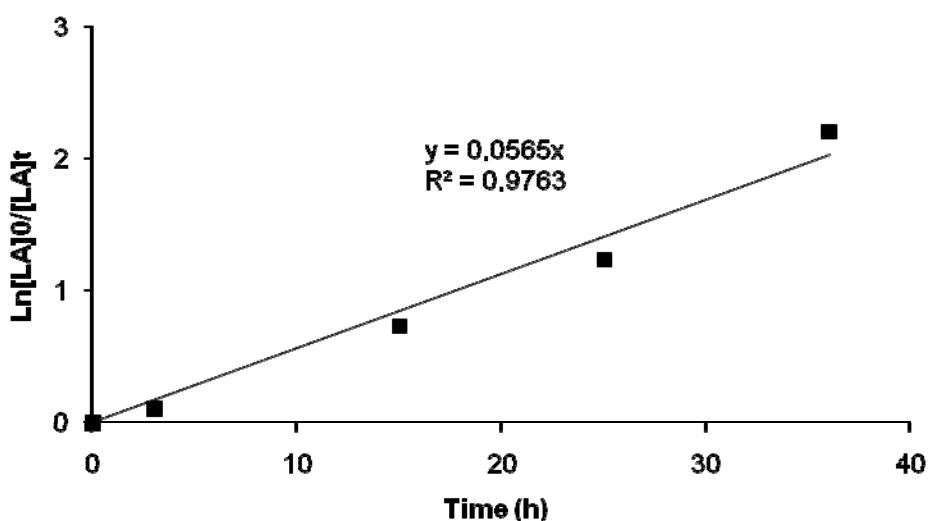


Figure S2. First-order kinetic plots of compound **1** for *rac*-LA polymerizations in toluene at 50 °C with [LA]/[Nd] = 100 and [Nd] = 1×10^{-3} mol L⁻¹.

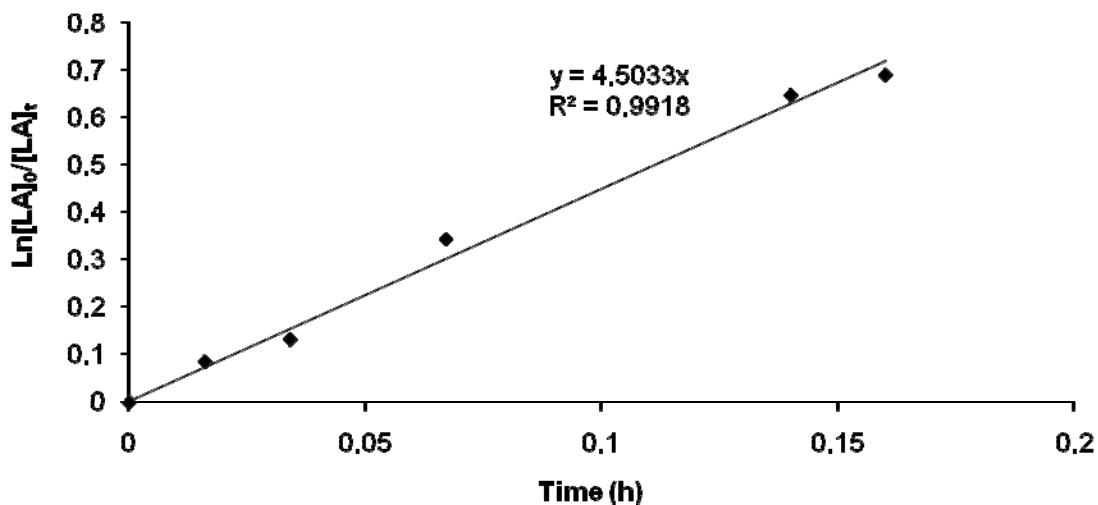


Figure S3. First-order kinetic plots of compound **3** for *rac*-LA polymerizations in toluene at 50 °C with $[\text{LA}]/[\text{Nd}] = 100$ and $[\text{Nd}] = 1 \times 10^{-3} \text{ mol L}^{-1}$.

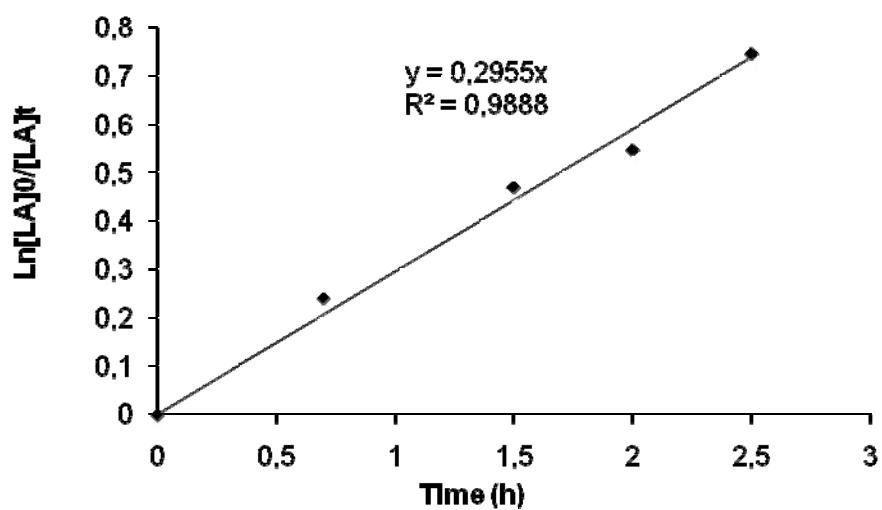


Figure S4. First-order kinetic plots of compound **5** for *rac*-LA polymerizations in toluene at 50 °C with $[\text{LA}]/[\text{Nd}] = 100$ and $[\text{Nd}] = 1 \times 10^{-3} \text{ mol L}^{-1}$.

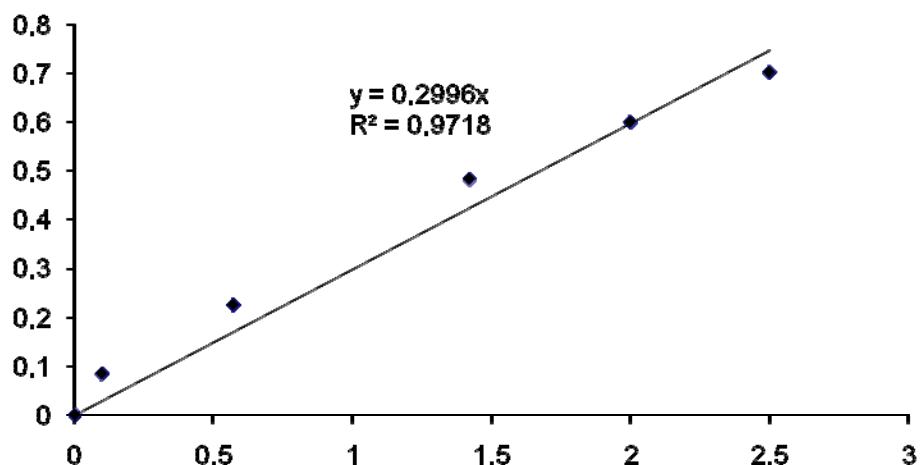


Figure S5. First-order kinetic plots of compound 7 for *rac*-LA polymerizations in toluene at 50 °C with [LA]/[Nd] = 100 and [Nd] = 1×10^{-3} mol L⁻¹.

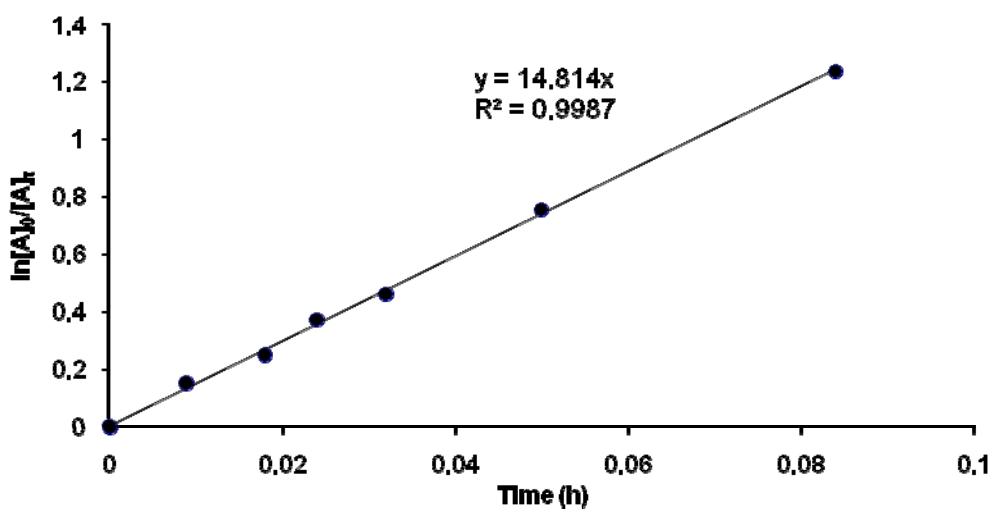


Figure S6. First-order kinetic plots of compound 3 for *rac*-LA polymerizations in toluene at 70 °C with [LA]/[Nd] = 100 and [Nd] = 1×10^{-3} mol L⁻¹.

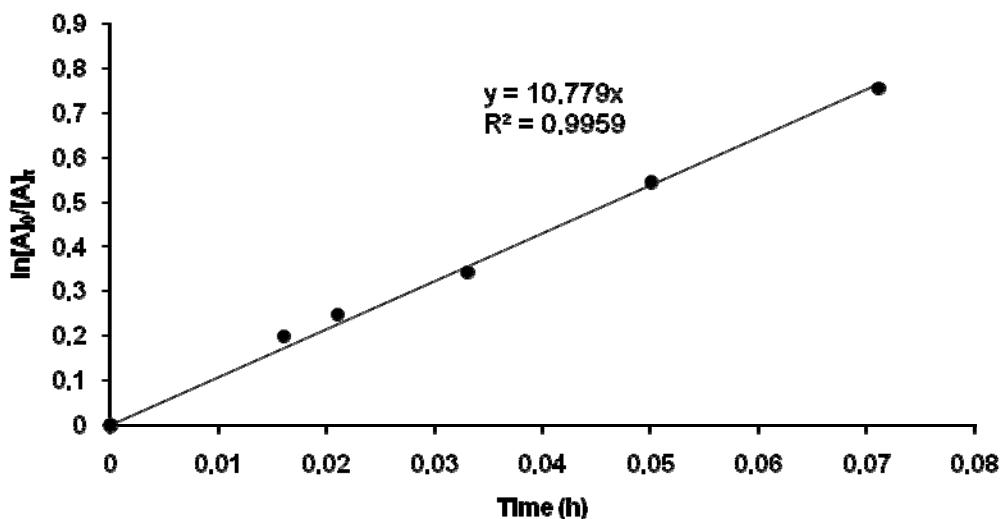


Figure S7. First-order kinetic plots of compound 3 for *rac*-LA polymerizations in toluene at 60 °C with $[LA]/[Nd] = 100$ and $[Nd] = 1 \times 10^{-3}$ mol L⁻¹

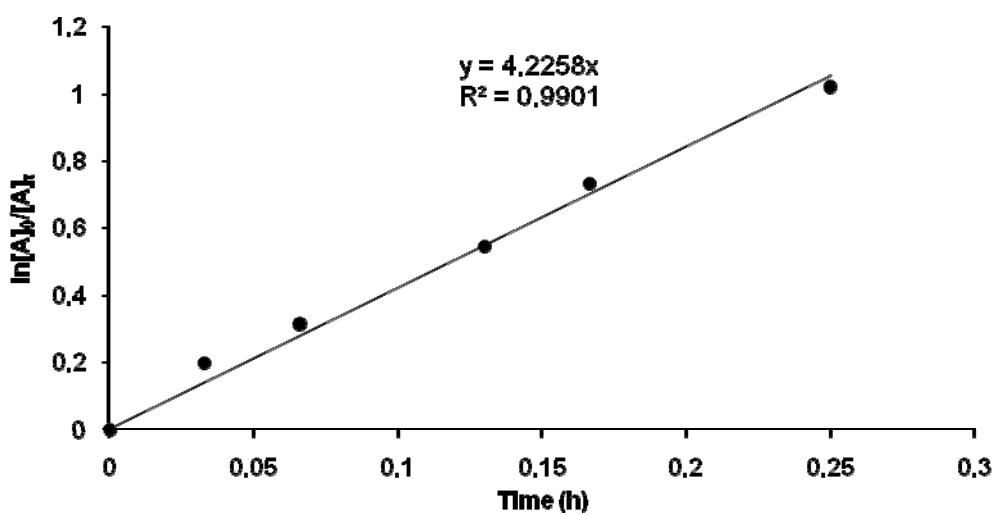


Figure S8. First-order kinetic plots of compound 3 for *rac*-LA polymerizations in toluene at 40 °C with $[LA]/[Nd] = 100$ and $[Nd] = 1 \times 10^{-3}$ mol L⁻¹

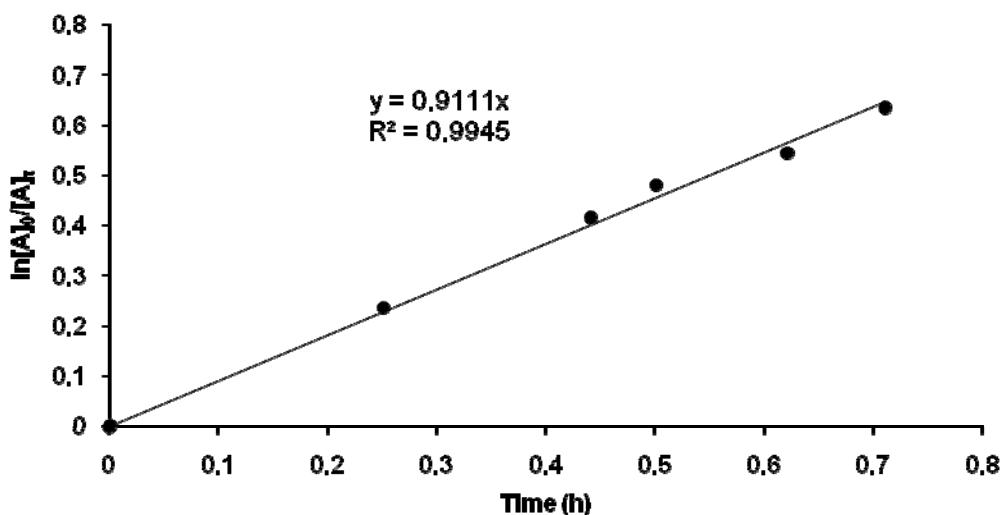


Figure S9. First-order kinetic plots of compound 3 for *rac*-LA polymerizations in toluene at 25 °C with $[LA]/[Nd] = 100$ and $[Nd] = 1 \times 10^{-3} \text{ mol L}^{-1}$

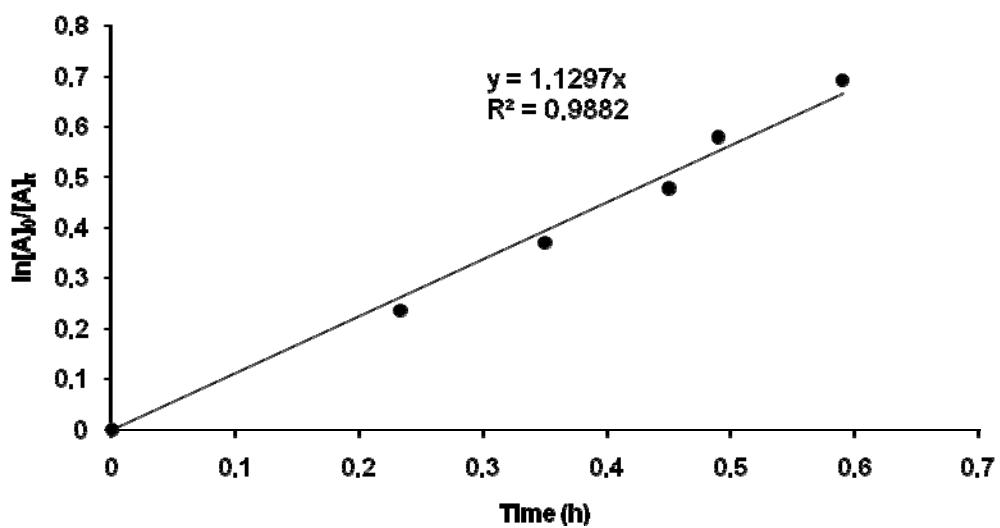


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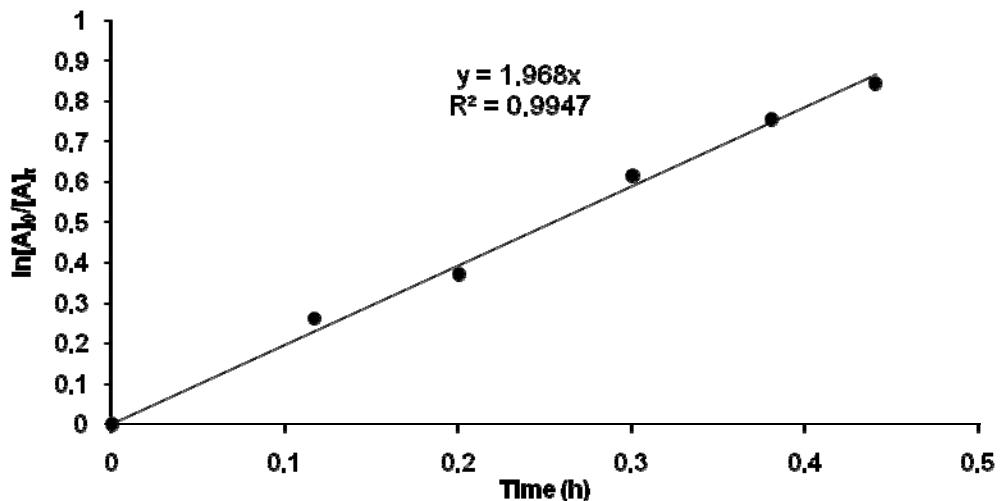


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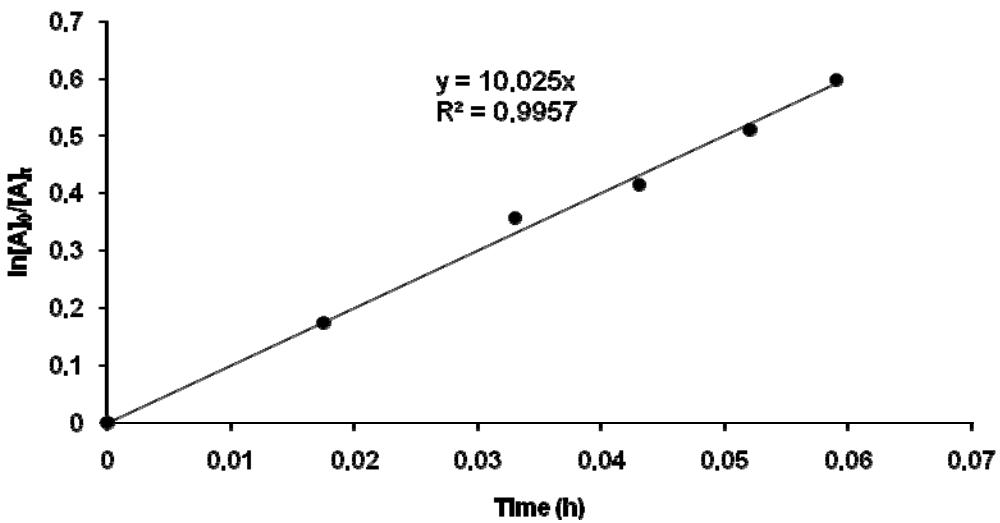


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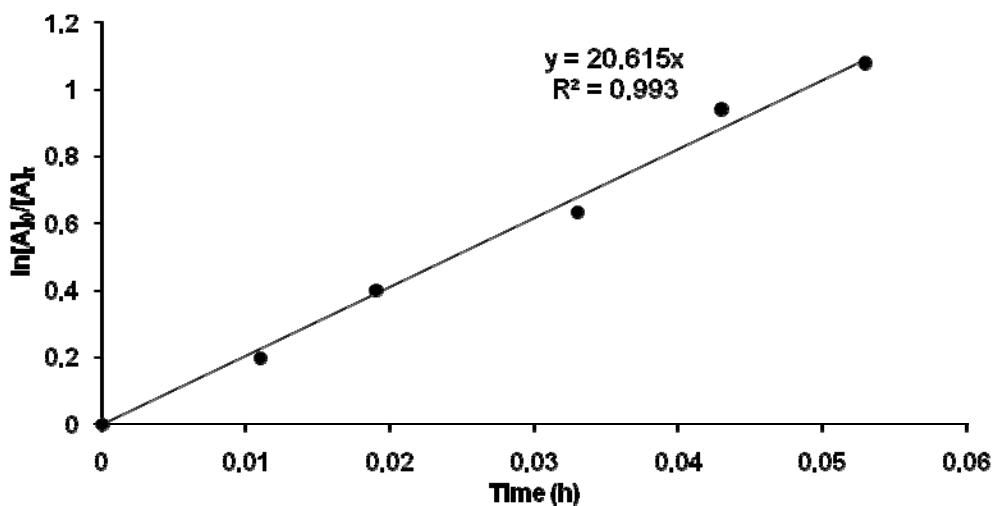


Figure S13. First-order kinetic plots of compound 3 for *rac*-LA polymerizations in toluene at 50 °C with $[LA]/[Nd] = 100$ and $[Nd] = 2 \times 10^{-3}$ mol L⁻¹

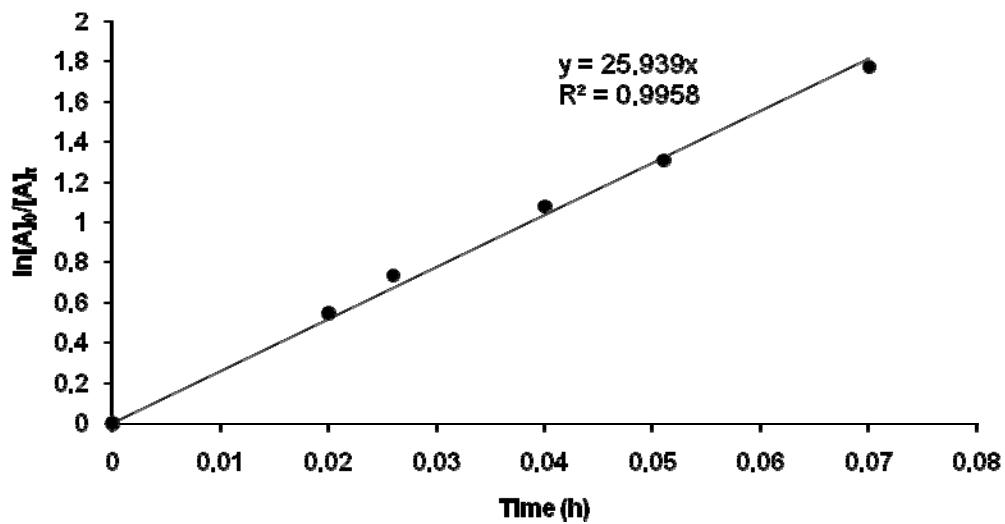


Figure S14. First-order kinetic plots of compound 3 for *rac*-LA polymerizations in toluene at 50 °C with $[LA]/[Nd] = 100$ and $[Nd] = 2.5 \times 10^{-3}$ mol L⁻¹

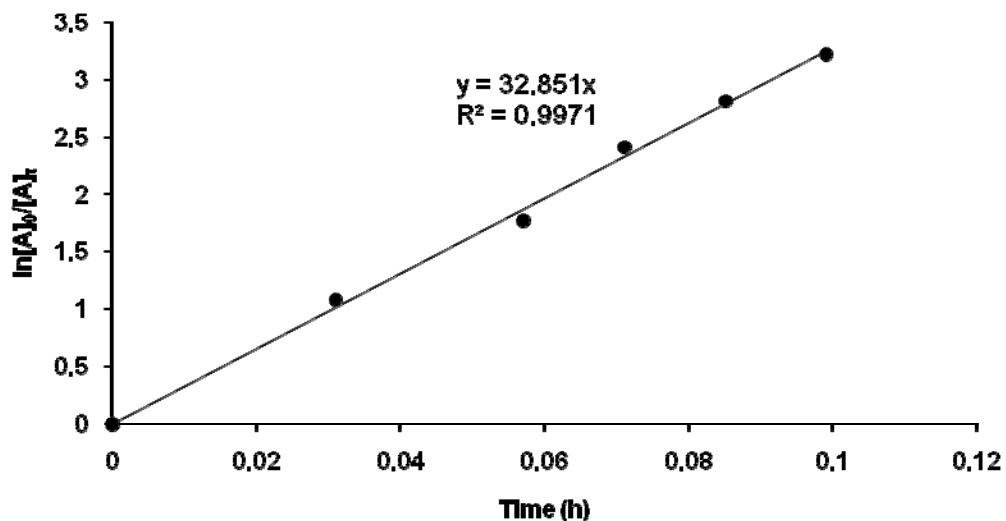


Figure S15. First-order kinetic plots of compound **3** for *rac*-LA polymerizations in toluene at 50 °C with $[\text{LA}]/[\text{Nd}] = 100$ and $[\text{Nd}] = 3 \times 10^{-3} \text{ mol L}^{-1}$

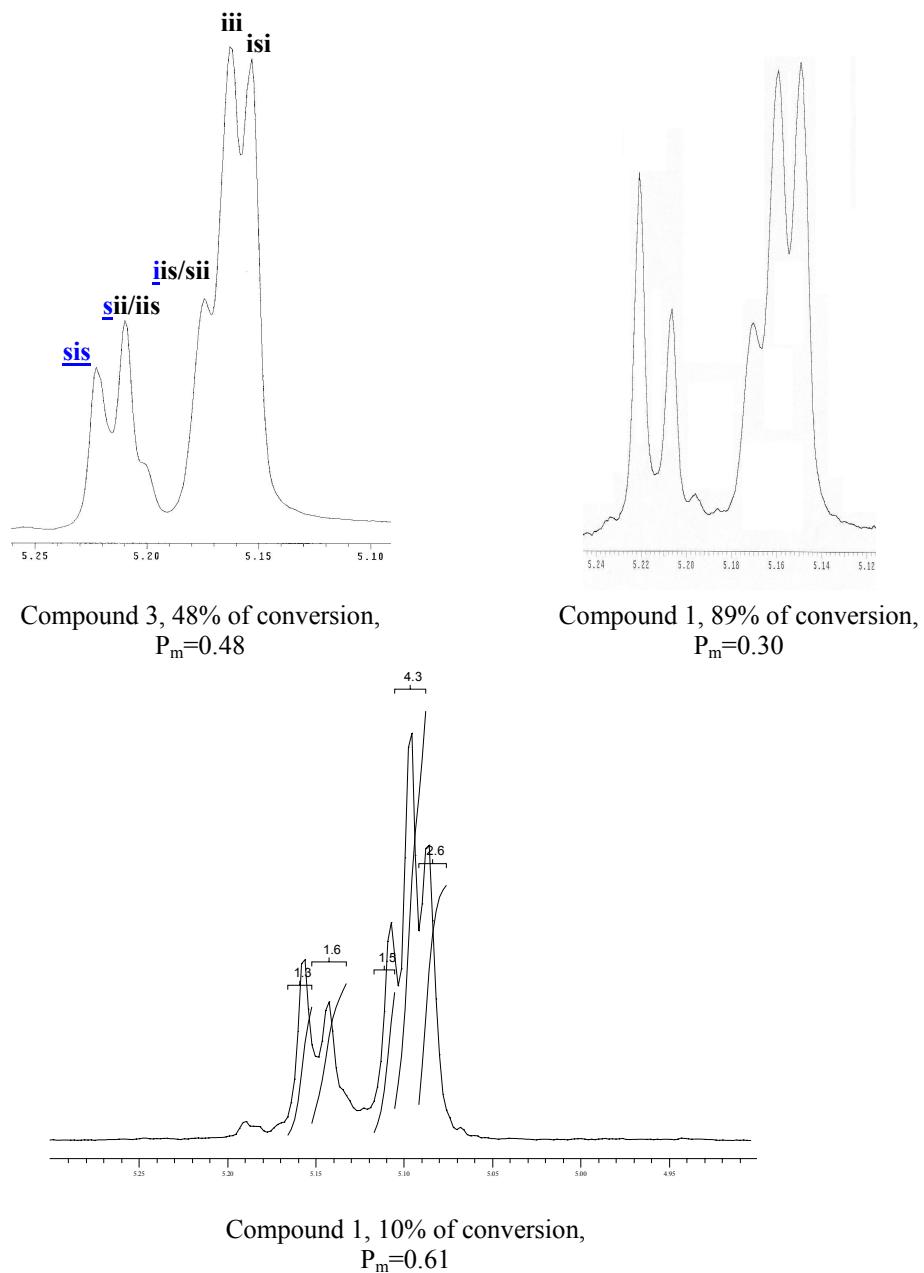


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