

SUPPORTING INFORMATION

Organo- I^{n} , d^0 -Mediated Synthesis of Amine-Capped Polyethylenes. Scope and Mechanism

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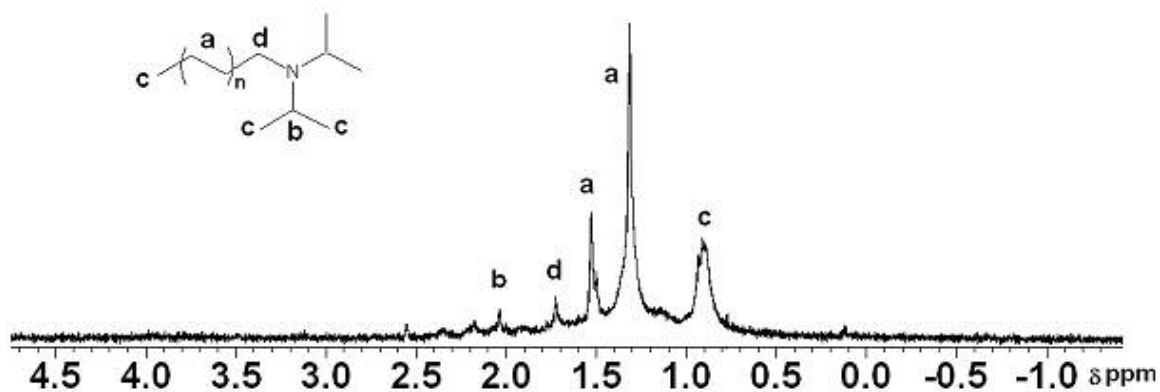


Figure S1. ^1H NMR (400 MHz, $\text{C}_2\text{D}_2\text{Cl}_4$, 130 $^\circ\text{C}$) spectrum of a di-*iso*-propylamine-capped oligoethylene produced by $\text{Cp}'_2\text{La}$ -mediated ethylene polymerization in the presence of di-*iso*-propylamine.

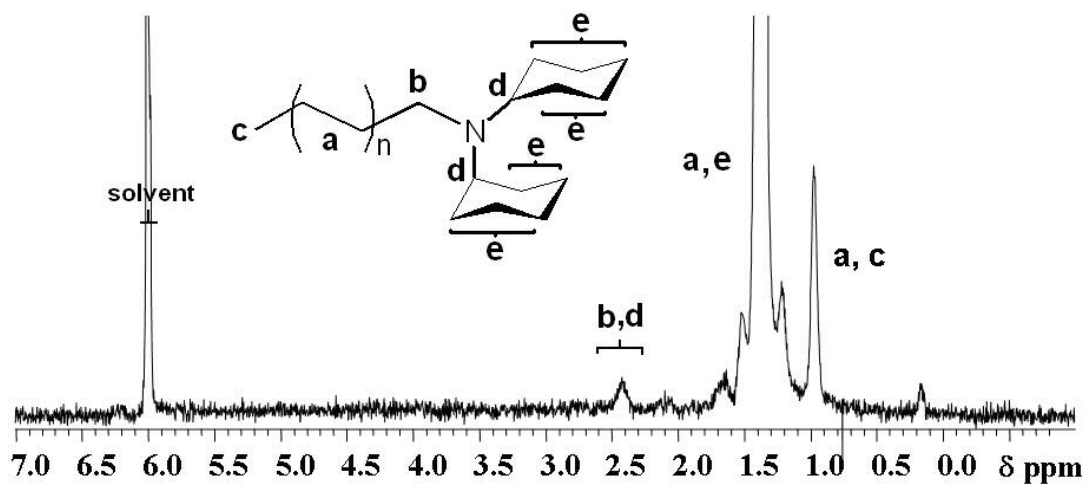


Figure S2. ^1H NMR (400 MHz, $\text{C}_2\text{D}_2\text{Cl}_4$, 130 $^\circ\text{C}$) spectrum of a dicyclohexylamine-capped polyethylene produced by $\text{CGCTiMe}_2/\text{Ph}_3\text{C}^+\text{B}(\text{C}_6\text{F}_5)_4^-$ -mediated ethylene polymerization in the presence of dicyclohexylamine.

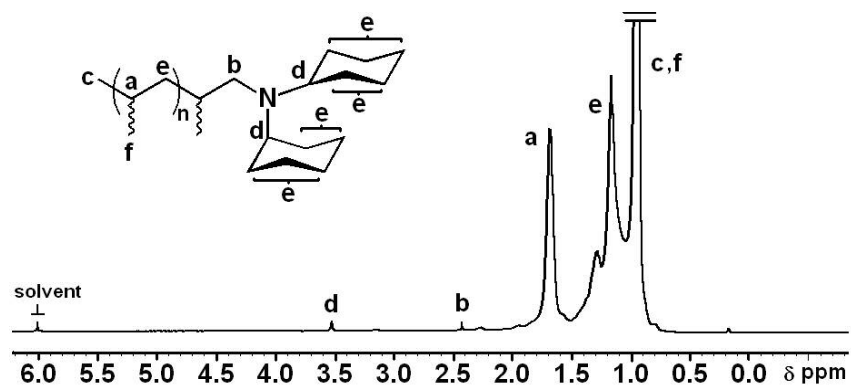


Figure S3. ^1H NMR (400 MHz, $\text{C}_2\text{D}_2\text{Cl}_4$, 130 $^\circ\text{C}$) spectrum of a dicyclohexylamine-capped atactic polypropylene produced by $\text{CGCTiMe}_2/\text{Ph}_3\text{C}^+\text{B}(\text{C}_6\text{F}_5)_4^-$ -mediated propylene polymerization in the presence of dicyclohexylamine.