

Supporting Information

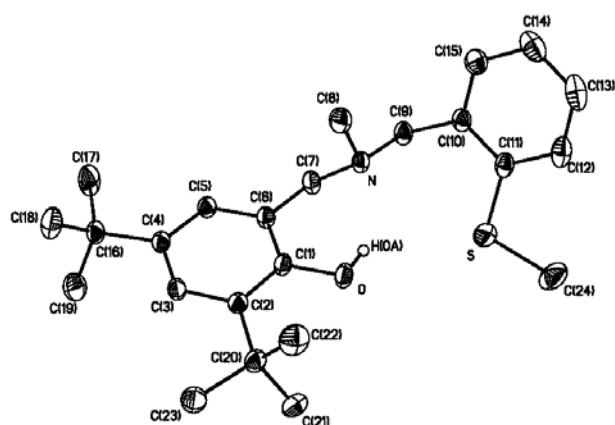
## **Structural and Catalytic Studies of Lithium Complexes Bearing Pendant**

### **Amino-Phenolate Ligands**

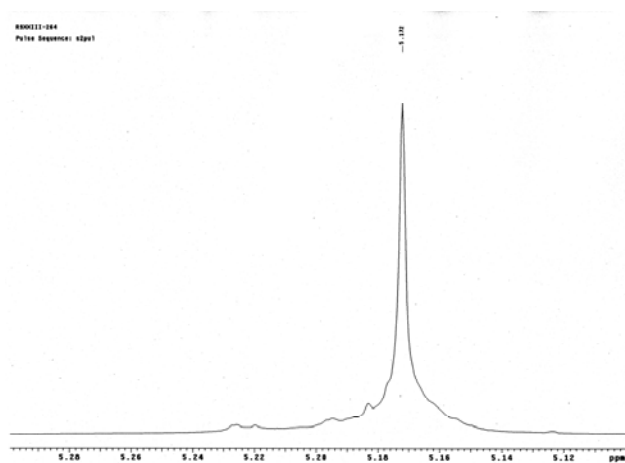
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**Fig.S1** Molecular structure of  $\text{HON}^{\text{Me}}\text{Ph}^{\text{SMc}}$ . Only hydrogen atom on the oxygen atom of phenol is exhibited.



**Fig.S2** Homonuclear-decoupled methine  $^1\text{H}$  NMR spectrum (400 MHz,  $\text{CDCl}_3$ ) of poly(L-Lactide) synthesized at  $26.5^\circ\text{C}$  for 5 min in  $\text{CH}_2\text{Cl}_2$  using **6** as initiator at  $\{[\text{M}]_0:[\text{Li}]_0\}:[\text{BnOH}] = 50:1$  (Table 1 entry 10).