

## Supporting Information

for

### **Non-cross-linked polystyrene-supported 2-imidazolidinone chiral auxiliary: synthesis and application in asymmetric alkylation reactions**

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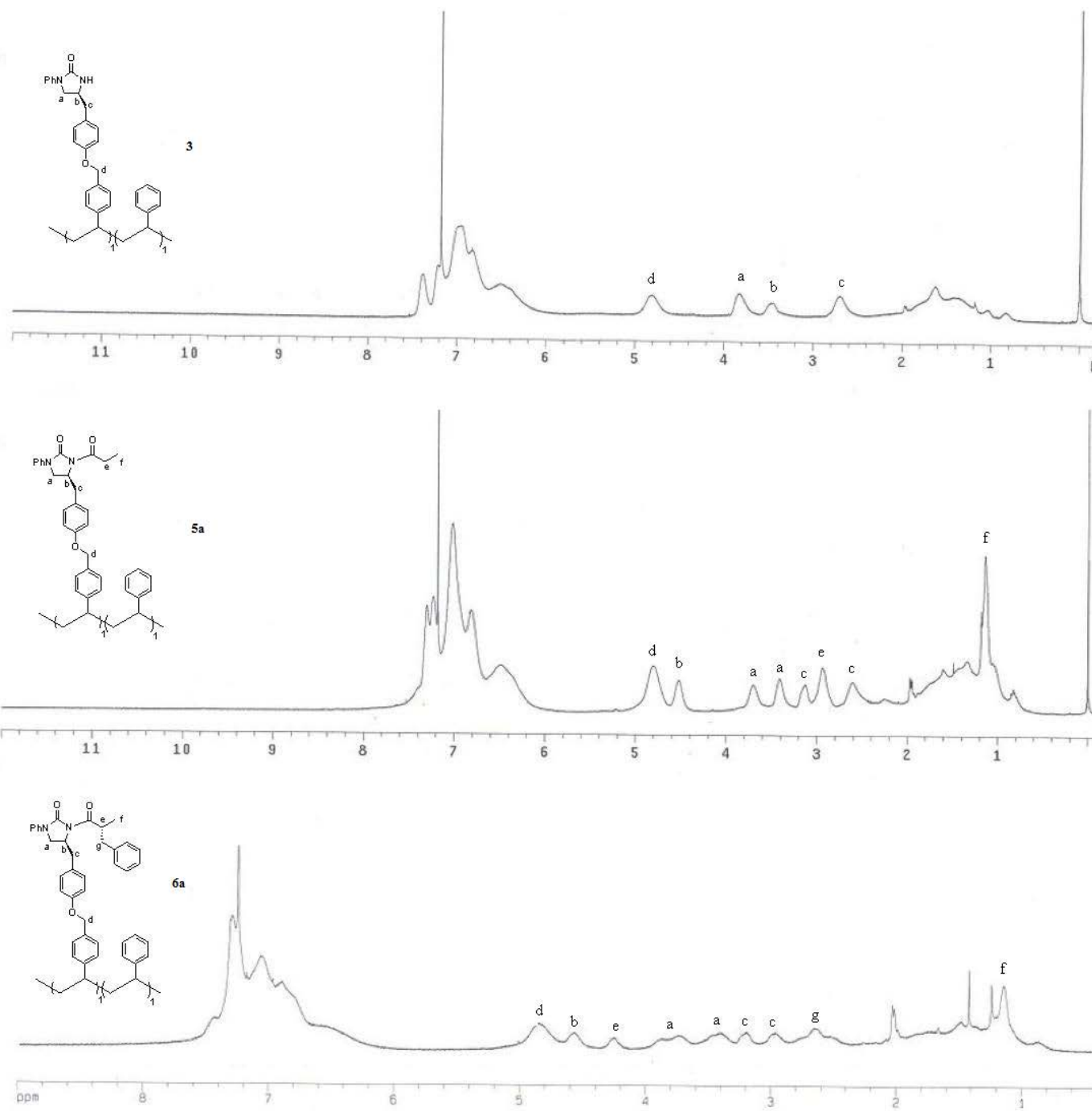
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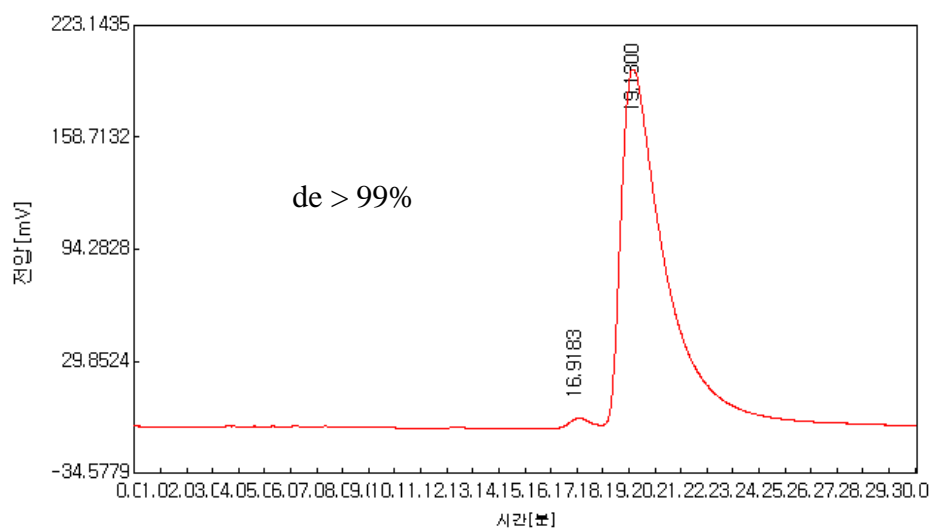
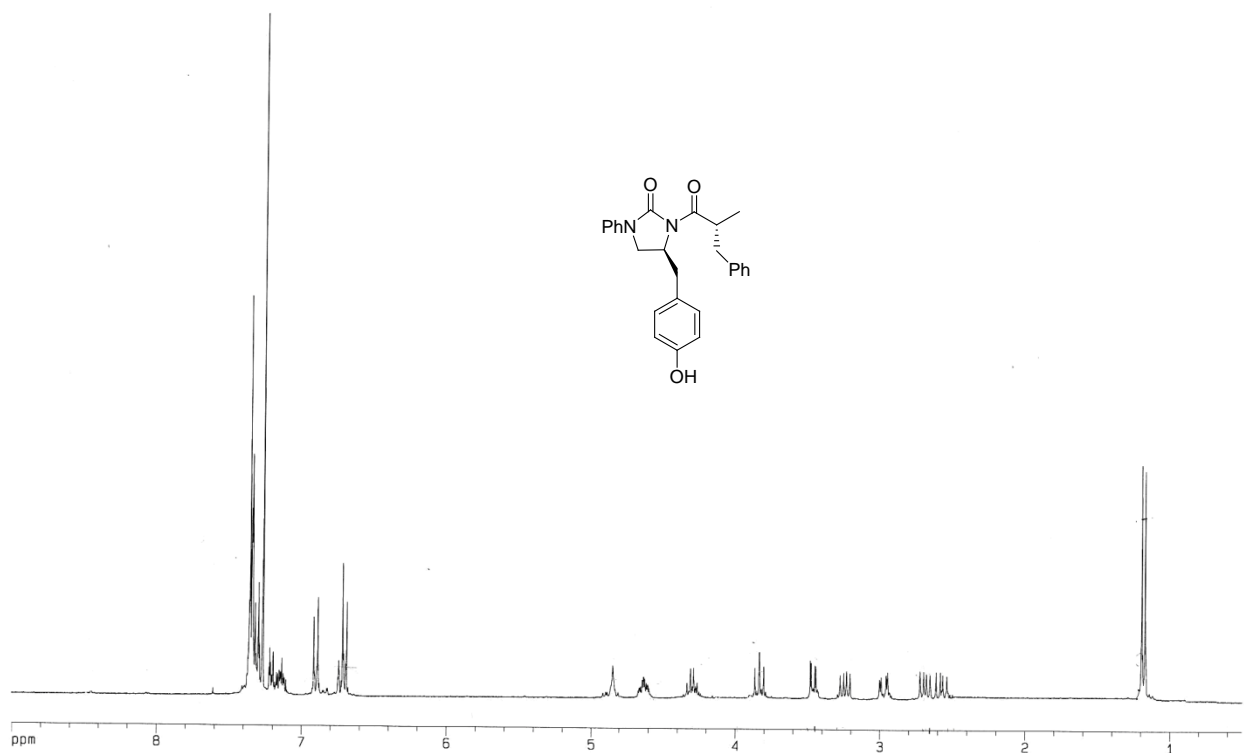
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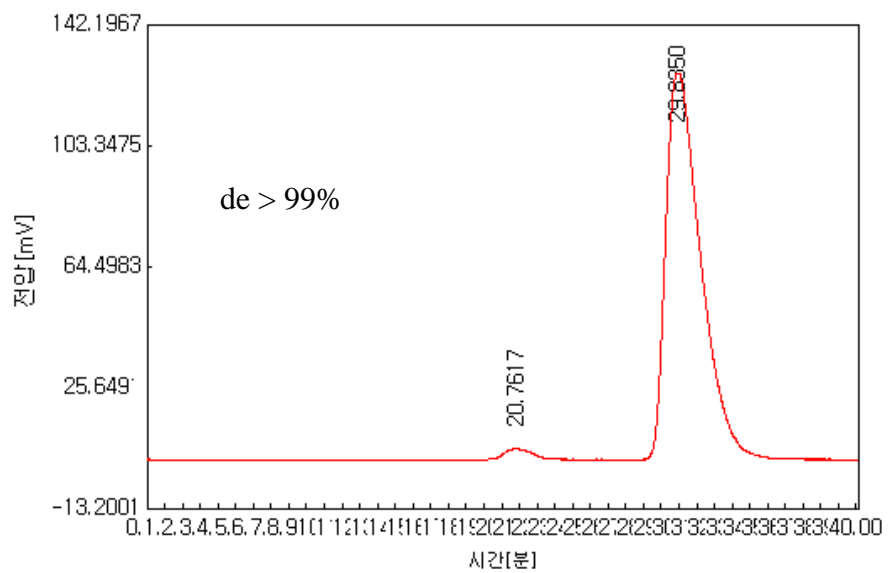
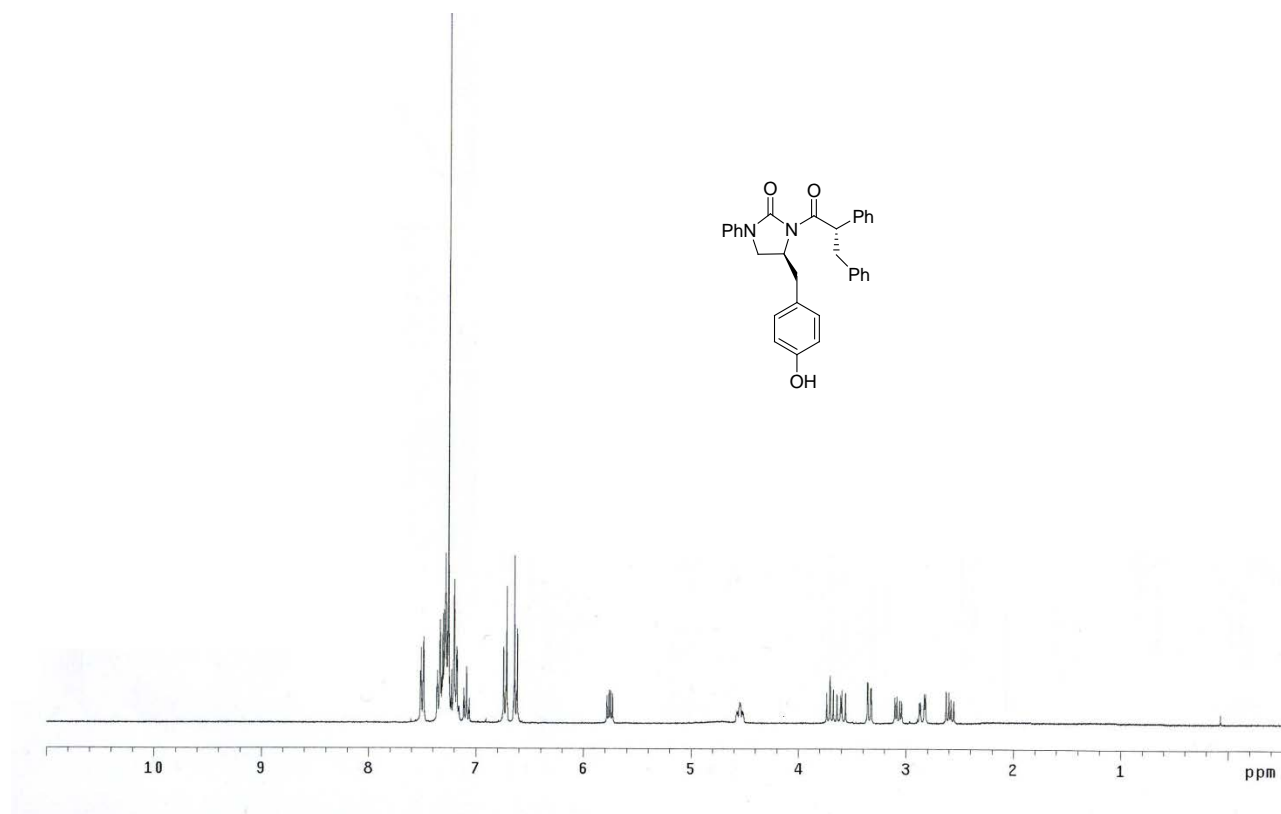
**<sup>1</sup>H NMR spectra of 3, 5a, 6a, 7a–d, and HPLC data of 7a–d**



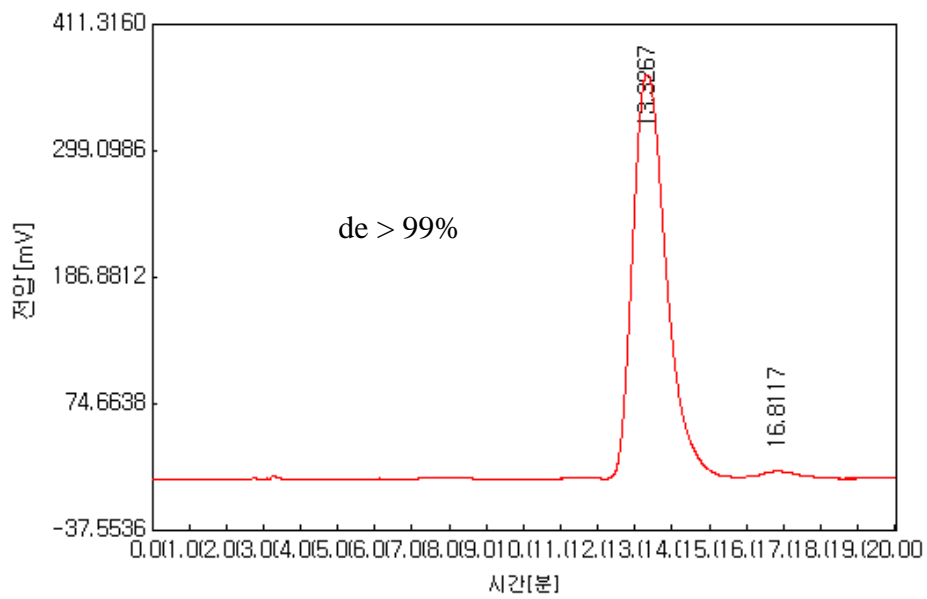
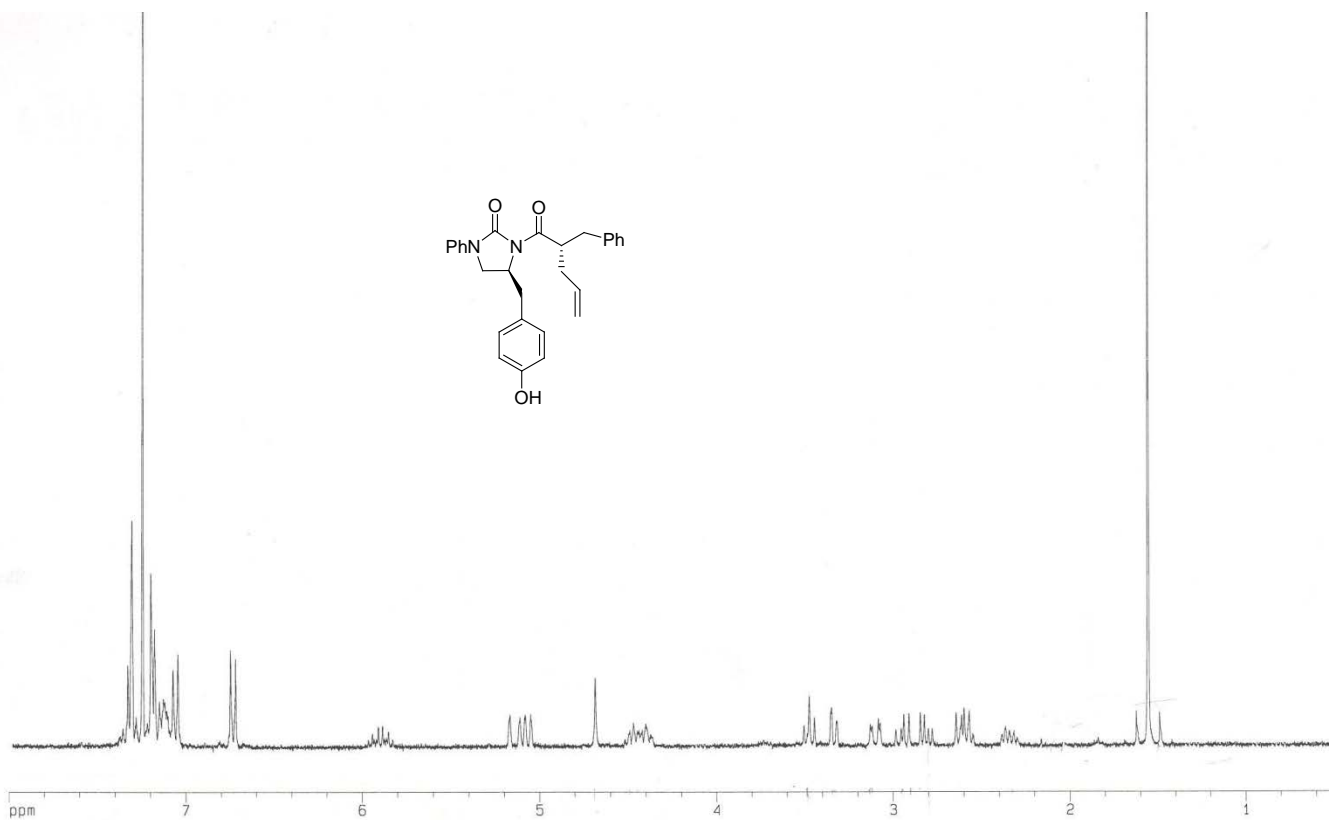
**Figure S1:**  $^1\text{H}$  NMR spectra (300 MHz,  $\text{CDCl}_3$ ) of polymers **3**, **5a** and **6a**.



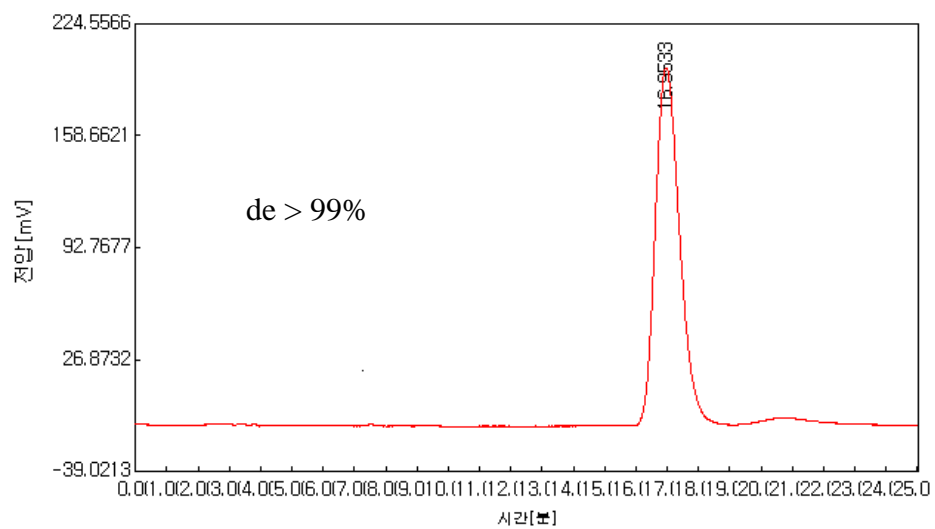
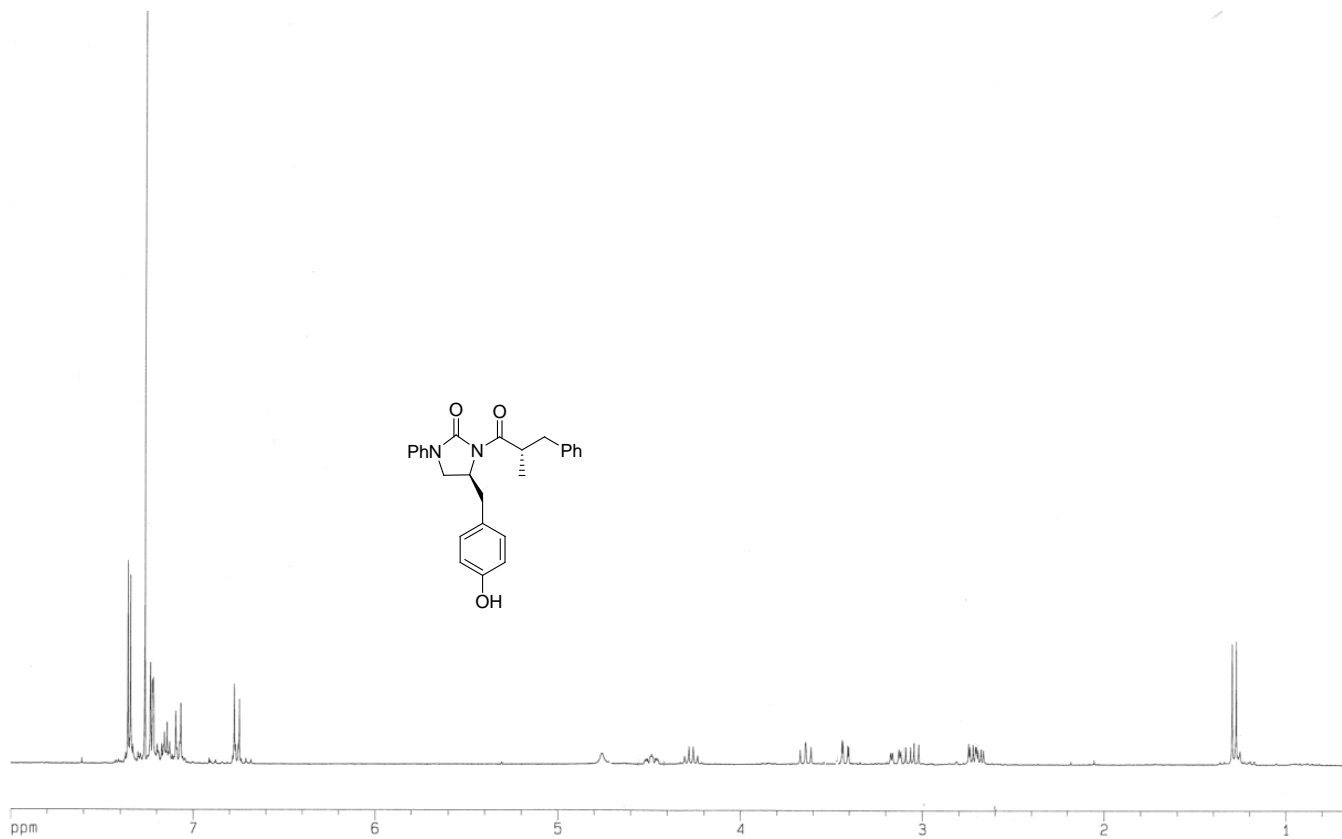
**Figure S2:**  $^1\text{H}$  NMR and HPLC data of compound **7a**.



**Figure S3:**  $^1\text{H}$  NMR and HPLC data of compound **7b**.



**Figure S4:**  $^1\text{H}$  NMR and HPLC data of compound **7c**.



**Figure S5:**  $^1\text{H}$  NMR and HPLC data of compound **7d**.