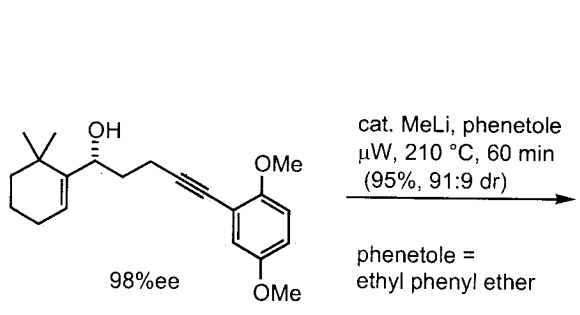
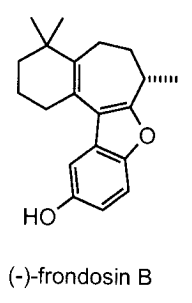


$^1\text{H NMR}$  (300 MHz,  $\text{DMSO-d}_6$ )  
 1.03 (t,  $J = 8.0$  Hz, 3H)  
 1.05 (s, 6H)  
 1.44 (m, 2H)  
 1.86 (s, 3H) 2 H  
 2.19 (q,  $J = 8.0$  Hz, 3H)  
 2.55 (m, 2H)  
 6.47 (s, 1H)  
 7.40 (d,  $J = 8.0$  Hz, 2H)  
 7.90 - 7.82 (d,  $J = 8.0$  Hz, 2H)  
 13.0 - 12.6 (brs, 1H)

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**A**  
 $\text{C}_{21}\text{H}_{28}\text{O}_3$   
 1) LHMDS, THF, -78 °C then MeI (85%, 97%ee)  
 2) CAN, MeCN- $\text{H}_2\text{O}$  rt, 45 min (93%)  
 3)  $\text{H}_2$ , Pd/C,  $\text{CHCl}_3$  10 min  
 4)  $\text{BF}_3 \cdot \text{OEt}_2$ ,  $\text{CH}_2\text{Cl}_2$ , 0 °C, 5 min (72% for 2 steps)  
 5) cat. PTS, PhH reflux, 5 h (68%)



CAN = ceric ammonium nitrate

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