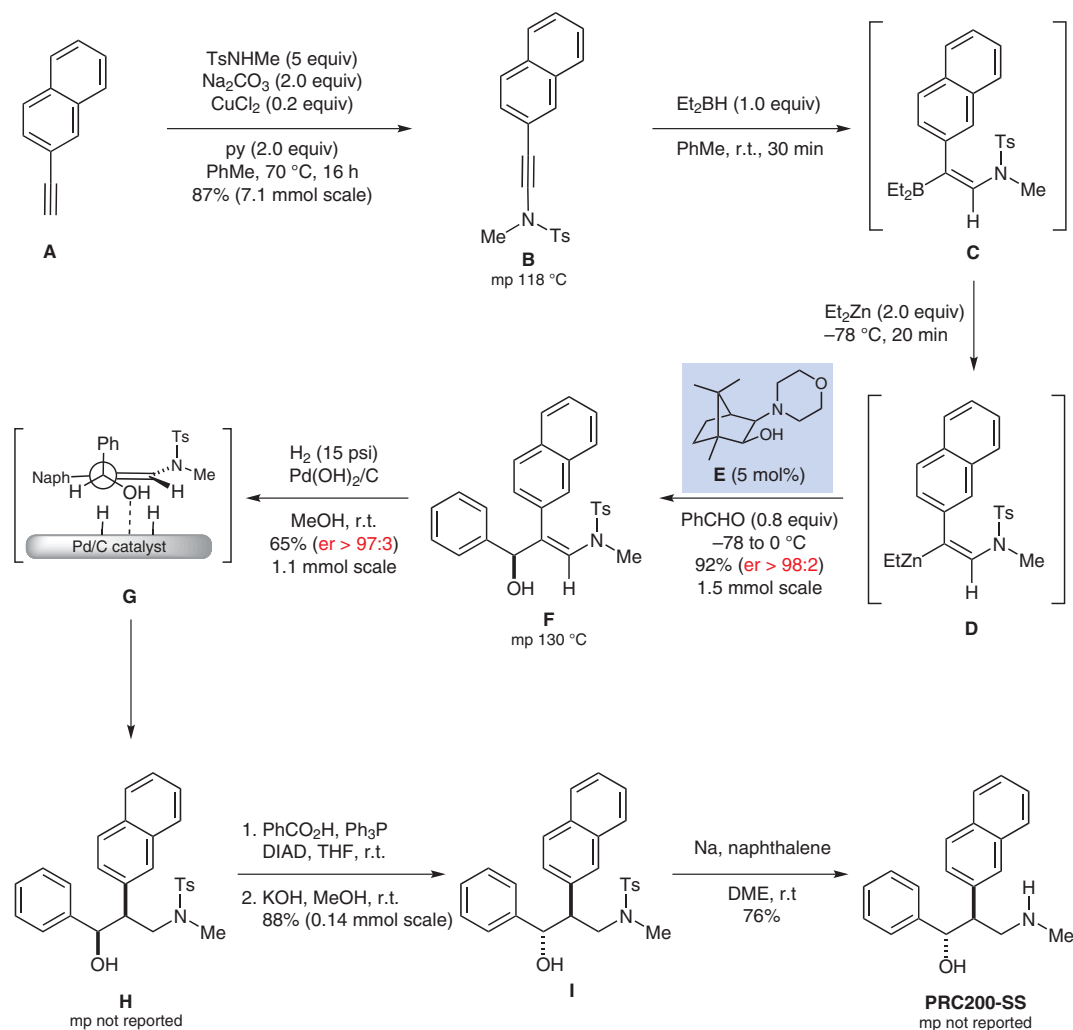


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Stereoselective Synthesis of  $\beta$ -Hydroxy Enamines, Aminocyclopropanes, and 1,3-Amino Alcohols via Asymmetric Catalysis

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## Synthesis of PRC200-SS



**Significance:** PRC200-SS is a serotonin–norepinephrine–dopamine reuptake inhibitor and a lead compound for the treatment of depression. This short and efficient synthesis of PRC200-SS features the asymmetric addition of the  $\beta$ -amino alkenyl zinc reagent **D** to benzaldehyde in the presence of the chiral chaperone **E**.

**Comment:** The  $\beta$ -hydroxy (*E*)-enamine derivative **F** underwent a hydroxyl-directed diastereoselective hydrogenation via conformation **G** to give the *syn*-1,2-disubstituted-1,3-amino alcohol **H** in moderate yield.

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ynamides

$\beta$ -hydroxy enamines

asymmetric addition

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**SYNFACTS**  
*of the month*

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