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Stereoactive Synthesis of β-Hydroxy Enamines, Aminocyclopropanes, and 1,3-Amino Alcohols via Asymmetric Catalysis

**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 β-amino alkényl zinc reagent **D** to benzaldehyde in the presence of the chiral chaperone **E**.

Comment: The β-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.

**Key words**

PRC200-SS 
ynamides 
β-hydroxy enamines 
asymmetric addition 
hydroboration