

Catalytic Asymmetric Polycyclization of Tertiary Enamides with Silyl Enol Ethers: Total Synthesis of (-)-Cephalocyclidin A

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bearing both aza- and oxa-quaternary stereogenic centers

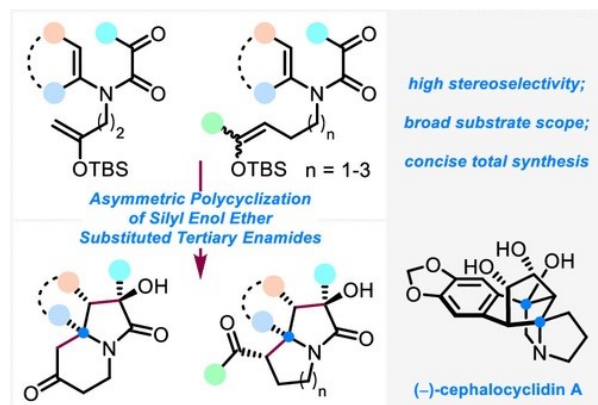
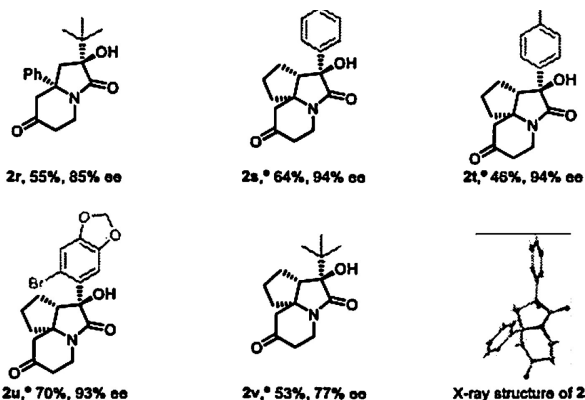
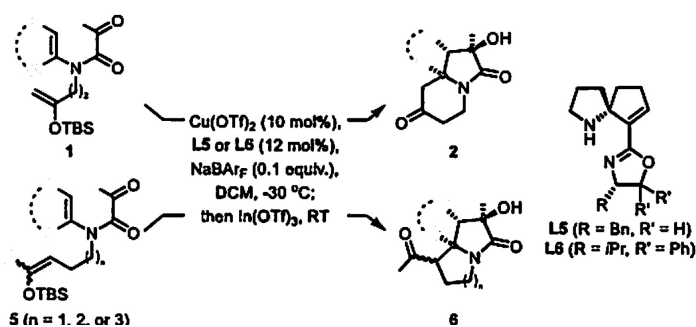
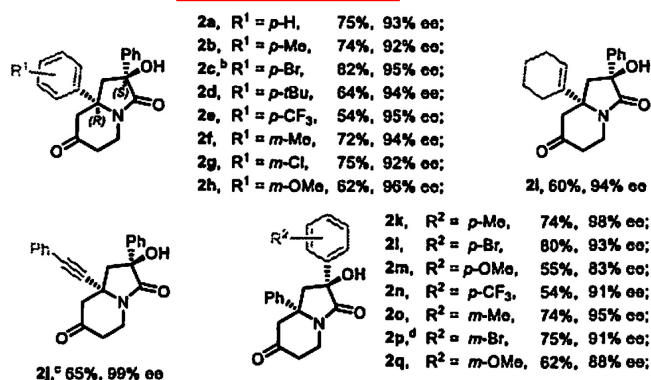


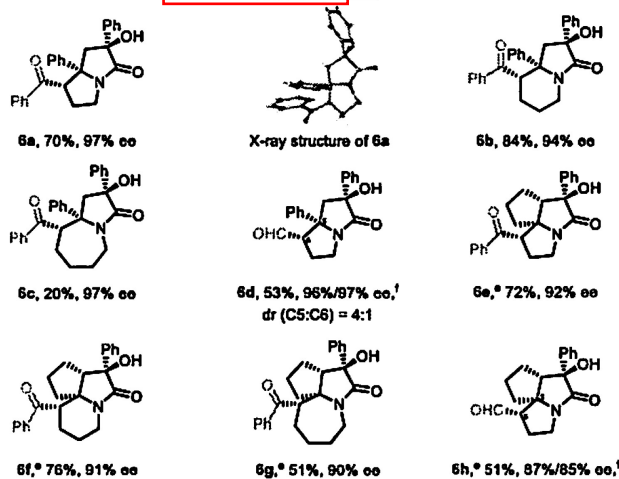
Table 2. Scope of Tertiary Enamides^a



5-exo/6-enolendo-endo-trig cyclization



5-exo/enolexo-endo-trig cyclization



[†] In each case, only a single diastereomer

Scheme 3. Total Synthesis of (-)-Cephalocyclidin A

