

Convergent and Efficient Total Synthesis of (+)-Heilonine Enabled by C–H Functionalizations

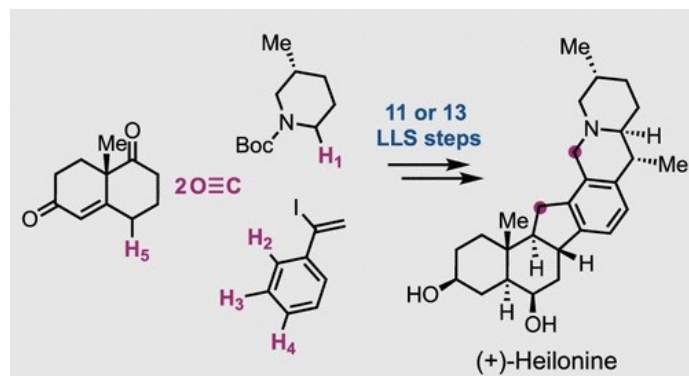
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Cite this: J. Am. Chem. Soc. 2024, 146, 3, 1825–1831

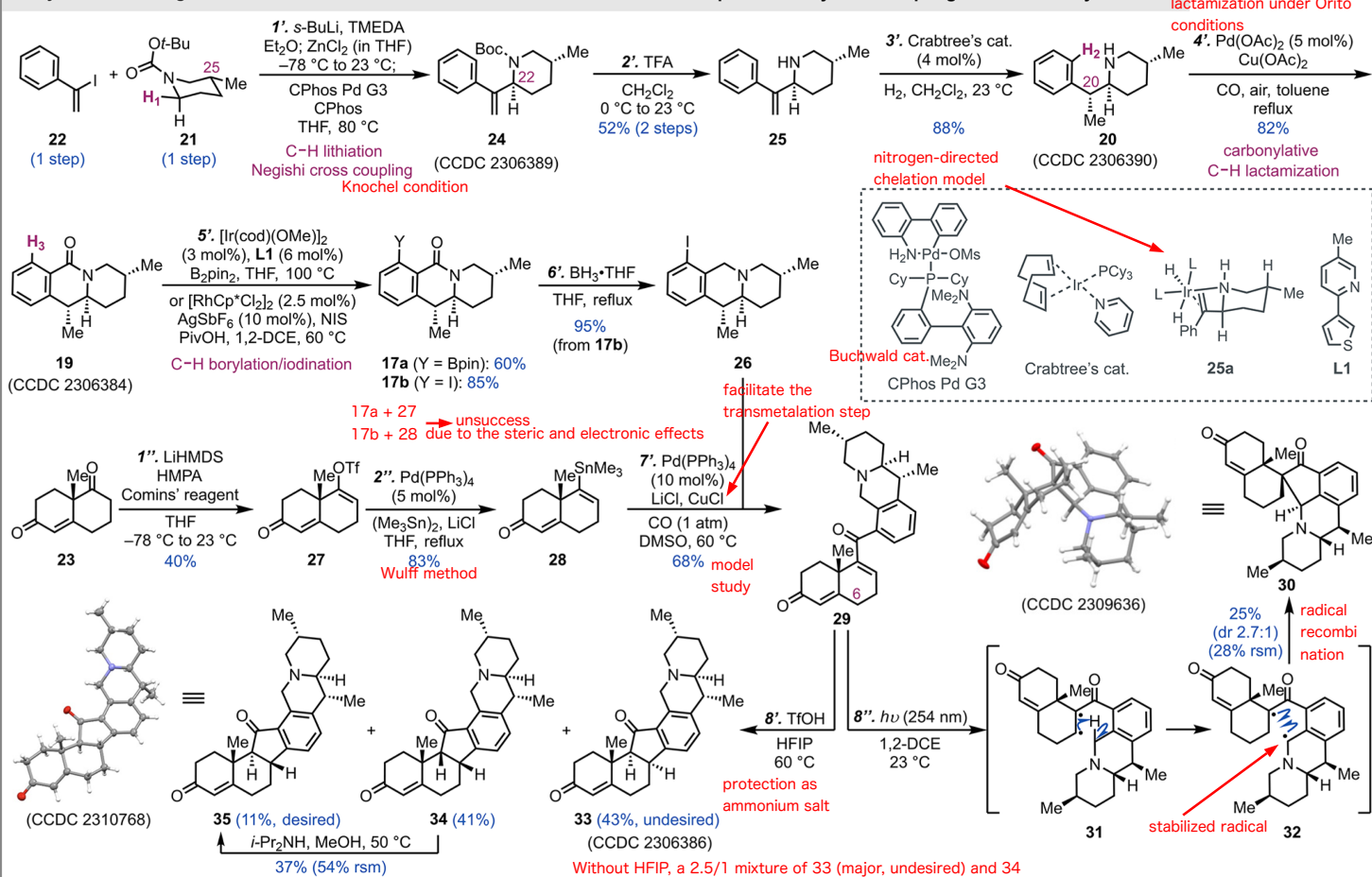
hexacyclic ring system, nine stereocenters, and a trans-hydrindane moiety.

four selective C–H functionalizations to form key C–C bonds and stereocenters.

longest linear sequence (LLS) steps.



**A. Syntheses of fragments 17a/b and 26 via three C–H functionalizations and attempted carbonylative coupling and Nazarov cyclization**



**B. Convergent total synthesis of (+)-heilonine in 11 or 13 steps (LLS)**

