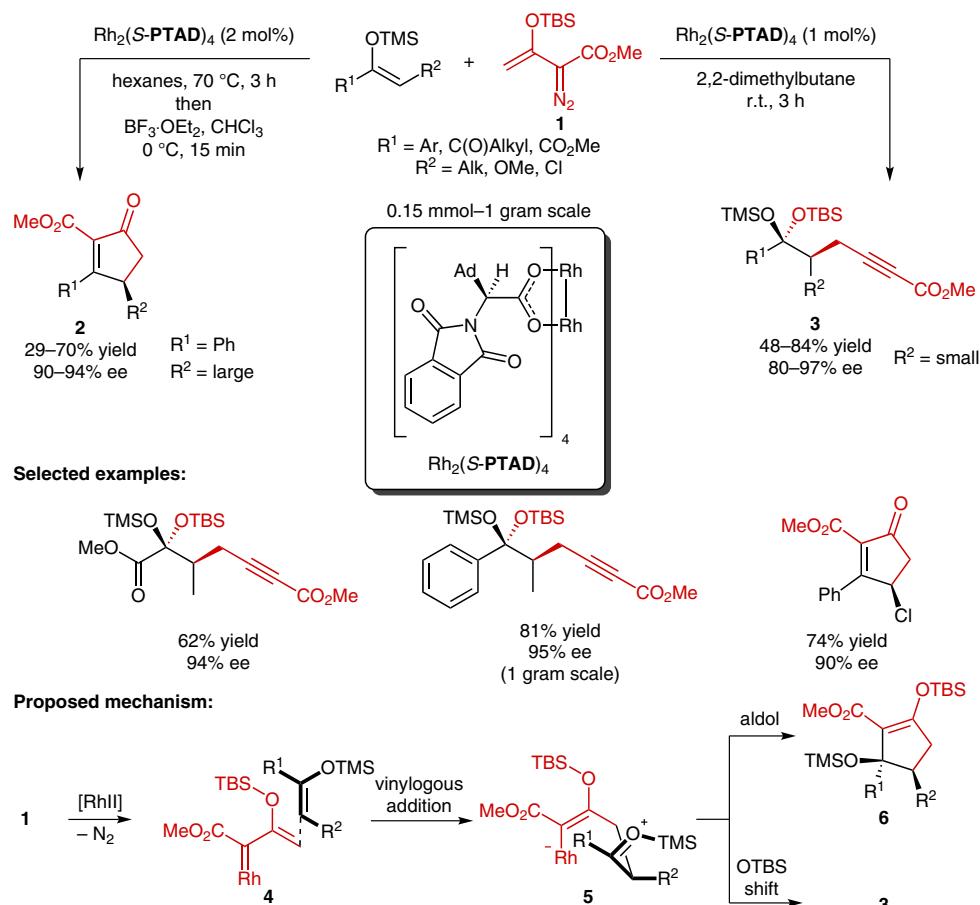


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Rhodium-Catalyzed Enantioselective Vinylogous Addition of Enol Ethers to Vinyldiazoacetates
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Rhodium-Catalyzed Asymmetric Vinylogous Addition to Vinyldiazoacetates



Significance: A rhodium-catalyzed asymmetric vinylogous addition of silyl enol ethers to siloxy-vinyl diazoacetates is reported. Depending on the sterics of the substituents on the substrate, this method can access cyclopentenones **2** or alkynoates **3** with high yield and excellent enantioselectivity.

Comment: The use of (*Z*)-silyl enol ethers is critical in achieving the observed enantioselectivity. In the proposed mechanism, vinylogous adduct **5** can undergo a stereoselective 1,4-siloxo shift to form **3**. Bulkier R¹ groups favor the aldol reaction to form formal [3+2] adduct **6**, which in one pot, in acid, can afford **2**.