

diastereoselective syntheses, enantioselective syntheses (incl. cis/trans-isomerism)

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Highly Enantioselective Syntheses of Functionalized α -Methylene- γ -butyrolactones via Rh(I)-Catalyzed Intramolecular Alder Ene Reaction: Application to Formal Synthesis of (+)-Pilocarpine.

Extraordinarily high enantioselectivities are obtained in the title reaction of alkenyl acetylenecarboxylates using catalytic amounts of $[\text{RhCl}(\text{cod})]_2$, (R)- or (S)-BINAP, and AgSbF_6 . Aldehyde (Xb) is a key intermediate for Bchi's synthesis of (+)-pilocarpine (XI). — (LEI, AIWEN; HE, MINSHENG; ZHANG, XUMU; J. Am. Chem. Soc. 124 (2002) 28, 8198-8199; Dep. Chem., Pa. State Univ., University Park, PA 16802, USA; EN)

