

furan derivatives

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Palladium-Catalyzed Intramolecular Alkyne- α,β -Unsaturated Carbonyl Coupling. A Formal Synthesis of (+)-Pilocarpine.

Pd-catalyzed enyne coupling of (E) or (Z) alkynoates (I) or (III) provides the alkenyl substituted lactones (II) highly stereoselectively. After esterification with (+)-dimethyltartrate and following chromatographic separation, the pure diastereomer (IV) is converted to aldehyde (VI), a known precursor of (+)-pilocarpine. — (WANG, Z.; LU, X.; *Tetrahedron Lett.* 38 (1997) 29, 5213-5216; Shanghai Inst. Org. Chem., Acad. Sin., Shanghai 200032, Peop. Rep. China; EN)

