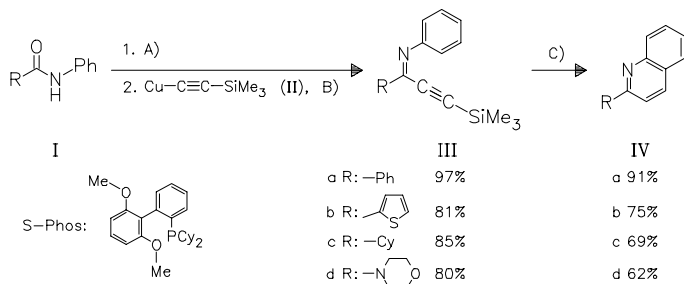



Quinoline derivatives

R 0410

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Synthesis of Substituted Pyridines and Quinolines. — An efficient two-step synthesis of a wide range of title heterocycles is developed. Advantages of the strategy is the single-step synthesis of alkynyl imines followed by Ru-catalyzed protiodesilylation and cycloisomerization. — (HILL, M. D.; MOVASSAGHI*, M.; Synthesis 2007, 7, 1115-1119; Dep. Chem., MIT, Cambridge, MA 02139, USA; Eng.) — Mais



A): Ti_2O_3 , , CH_2Cl_2 , $-78 \rightarrow 0^\circ\text{C}$ B): THF, $-78 \rightarrow 0^\circ\text{C}$

C): NH_4PF_6 , $\text{RuCl}(\text{Cp})(\text{PPh}_3)_2/\text{S-Phos}$ (cat.), toluene, 105°C , [19 h]

