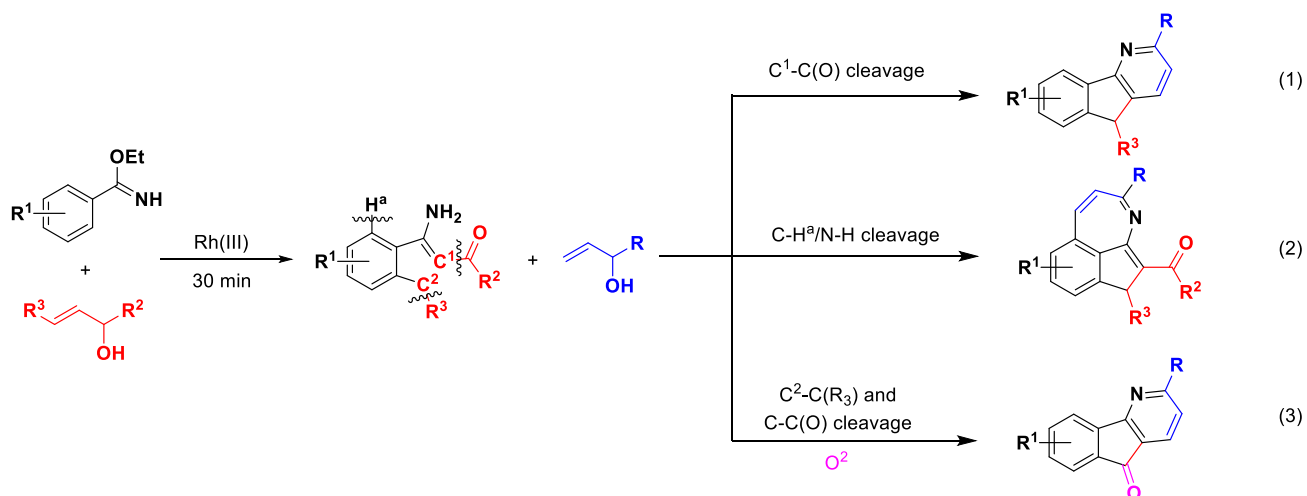


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Qianwen Gao

Problem-001



(1) [Cp*RhCl₂]₂ (2 mol%), AgNTf₂ (4 mol%), NaOAc (10% mol%), Cu(OAc)₂·H₂O (30 mol%), O₂ (1 atm), DCE, 120 °C

(2) [Cp*RhCl₂]₂ (2 mol%), AgNTf₂ (5 mol%), NaOPiv (30% mol%), O₂ (1 atm), 1,4-Dioxane/DCE, 70 °C

(3) [Cp*RhCl₂]₂ (2 mol%), AgNTf₂ (5 mol%), NaOAc (30% mol%), Cu(OAc)₂·H₂O (30 mol%), O₂ (1 atm), DCE/HOAc = 1:4, 120 °C

Problem-002

