

Supporting Information

Palladium Catalyzed Arylation of Enynes and Electron Deficient Alkynes Using Diaryliodonium Salts

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A typical procedure is as follows: To a mixture of $\text{PdCl}_2(\text{PPh}_3)_2$ (0.021 g, 0.03 mmol), **1a** (0.643 g, 1.5 mmol), CuI (0.04 mmol), K_2CO_3 (0.276 g, 2 mmol) in DMF/ H_2O (6:1) (14 mL) was added enyne **2a** (0.099 g, 1.5 mmol) at RT under an N_2 atmosphere and stirred at RT for 2-3 hrs. The reaction was quenched by an aq. NH_4Cl solution and it was extracted with ether (2 x 20 mL) and washed with H_2O (2 x 15 mL). The combined organic layers was dried (Na_2SO_4) and concentrated. The residue was subjected to column chromatography (silica gel, hexane) resulting in **3a** (0.21 g, 99%).





