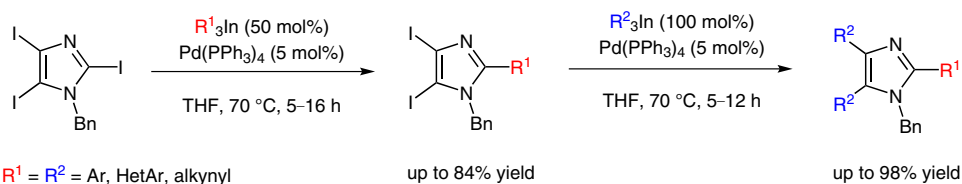


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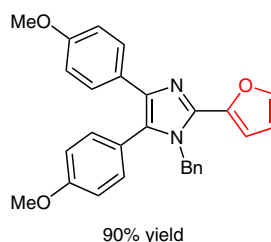
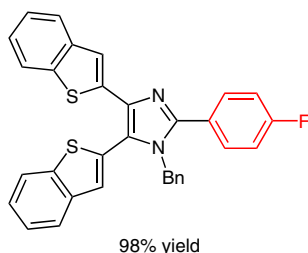
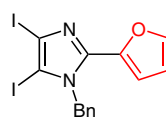
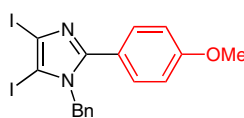
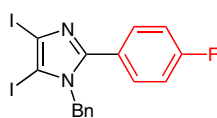
Triorganoindium Reagents in Selective Palladium-Catalyzed Cross-Coupling with Iodoimidazoles: Synthesis of Neurodazine

*J. Org. Chem.* **2014**, *79*, 9586–9593.

## Palladium-Catalyzed Cross-Coupling of Triorganoindium Reagents



### Selected examples:



**Significance:** The authors demonstrate that triorganoindium reagents react selectively with *N*-benzyl-2,4,5-triiodoimidazole under palladium catalysis to give the corresponding C-2-arylated coupling products in good yields. These products can further be used in a subsequent double cross-coupling to afford trisubstituted imidazoles in good yields.

**Comment:** This methodology was further applied to the synthesis of neurodazine, a biologically active compound which is able to specifically induce neurogenesis of non-pluripotent myoblasts and the cells derived from mature human skeletal muscle.

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*Synfacts* 2015, 11(1), 0075 Published online: 15.12.2014  
**DOI:** 10.1055/s-0034-1379660; **Reg-No.:** P16414SF

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Category

Metal-Mediated  
Synthesis

Key words

indium

palladium

imidazoles