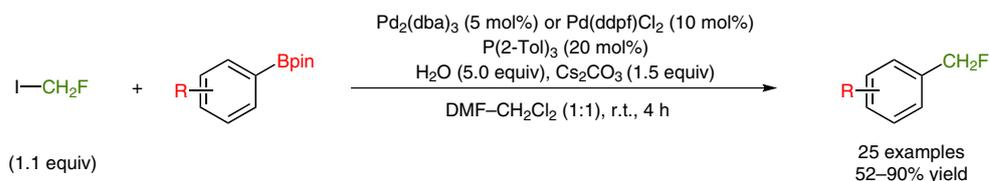
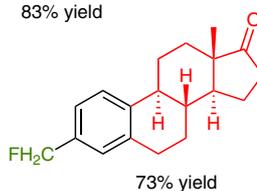
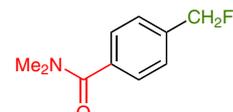
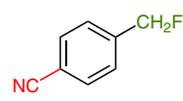
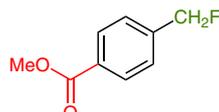
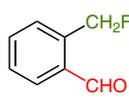
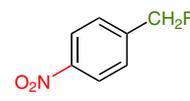
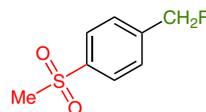
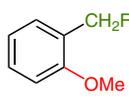
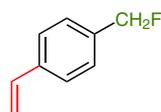


J. HU, B. GAO, L. LI, C. NI, J. HU* (SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY, P. R. OF CHINA)
Palladium-Catalyzed Monofluoromethylation of Arylboronic Esters with Fluoromethyl Iodide
Org. Lett. **2015**, *17*, 3086–3089.

Palladium-Catalyzed Monofluoromethylation of Arylboronic Esters



Selected examples:



Significance: Hu and co-workers describe the palladium-catalyzed monofluoromethylation of arylboronic esters with fluoromethyl iodide. The mild method shows exceptional group tolerance, with boronate esters bearing functional groups such as aldehyde, amide, cyanide or sulfone reacting well. The monofluoromethyl arenes are produced in high yields.

Comment: Rather than using highly toxic reagents such as HgF₂, the authors prepared the monofluoromethylating agent CH₂IF by Finkelstein reaction from CH₂FCI. To prove the synthetic applicability of the method, the monofluoromethylation of a complex biologically active estrone was performed.

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