

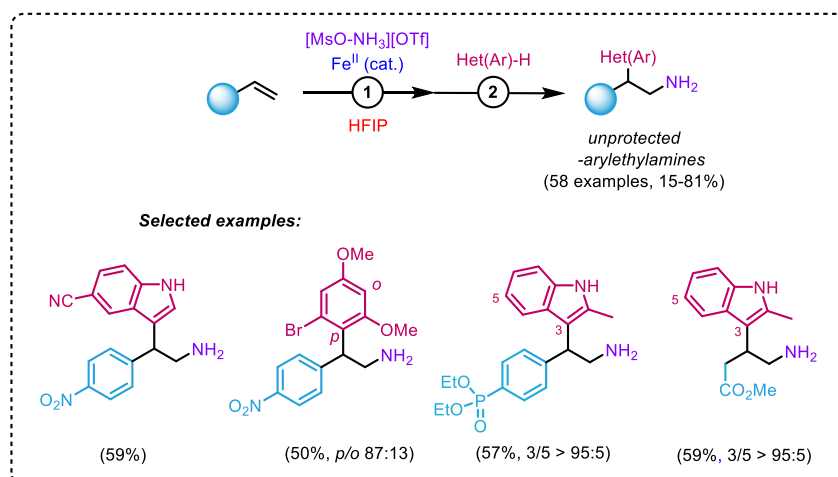
Unprotected β -Arylethylamines via Iron(II)-Catalyzed 1,2-Aminoarylation of Alkenes in HFIP

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As β -Arylethylamines are prevalent structural motifs in molecules exhibiting biological activity, we report here a sequential one-pot protocol 1,2-aminoarylation of alkenes with hydroxylammonium triflate salts and (hetero)arenes. Hydroxylammonium triflate salts have recently gained a lot of attention as powerful reagents for the synthesis of unprotected primary amines.^[1,2,3] Our group has a long lasting interest in the development of catalytic methodologies using HFIP as a solvent.^[4,5] When compared to existing methods, this reaction provides a direct entry to unprotected β -arylethylamines with a remarkable functional group tolerance, allowing to install key drug-oriented functional groups in a two-step process. The use of hexafluoroisopropanol as a solvent in combination an iron(II) catalyst proved fundamental to facilitate this transformation towards high-value nitrogen-containing molecules.



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