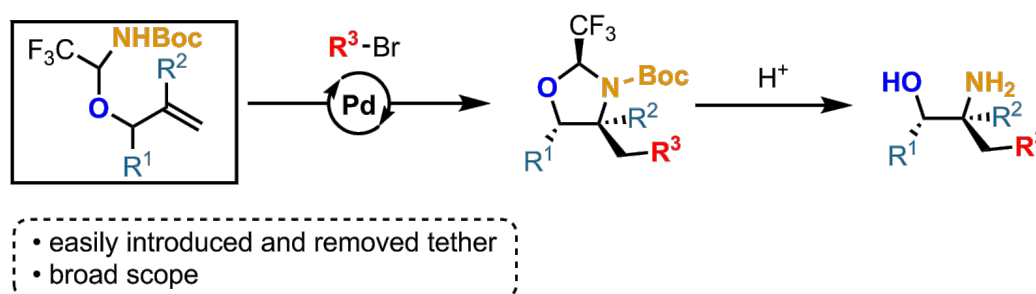


A Tethering Strategy for the Synthesis of Vicinal AminoalcoholsB. Muriel¹, U. Orcel¹, J. Waser^{1*}¹EPF Lausanne

Vicinal amino-alcohols are a common structural motif that can be found in a wide array of biologically active natural compounds, ligands, catalysts and chiral auxiliaries.^[1] Therefore, efficient methods for their synthesis are necessary. The use of removable tethers combined with Pd-catalyzed olefin functionalization has known intense developments in recent years and has proved to be an efficient strategy for the installation of new functionalities on an alkene in a 1,2 relationship.^[2] Recently, our group has introduced (hemi)aminal tethers derived from trifluoroacetaldehyde for the carboetherification and carboamination of allylic amines to give aminoalcohols and diamines.^[3] Herein, we would like to report the successful implementation of this strategy to allylic alcohols. The synthesis of a stable hemiaminal could be achieved, followed by a Pd-catalyzed carboamination that could install concomitantly a C-N bond and a highly valuable C-C bond.^[4] A wide variety of groups could be introduced to form functionalized oxazolidines that could then deliver the free amino alcohols under acidic hydrolysis.



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