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Addition/Correction

Correction to Markovnikov-Selective Hydroboration of Olefins Catalyzed by a Copper N-Heterocyclic Carbene Complex

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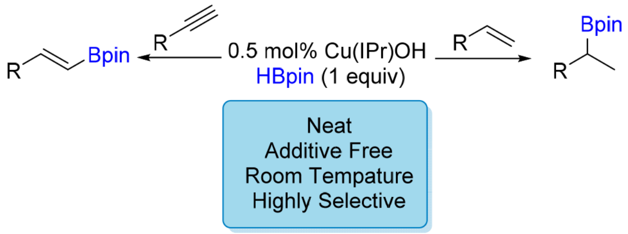
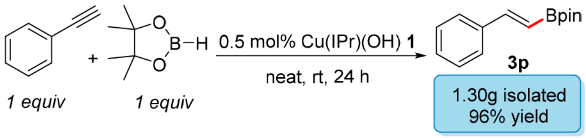


It has come to our attention that some of the products listed in Table 2 of the article and in eq 1 have the incorrect stereochemistry. The reactions of alkynes with HBpin give the linear *E*-olefin products, not the branched products as were shown. ^1H NMR spectra clearly show two doublets with a large *J* (18 Hz) for the *trans*-hydrogens of the alkene product. A DEPT-135 spectrum also confirms that CH and not CH_2 is present. Corrected eq 1, Table 2, TOC graphic are shown. Note that the alkene addition products are correctly assigned as branched, displaying a doublet and a quartet for the methyl and methane groups, respectively. NMR spectra for all products are included in the revised Supporting Information. We thank Prof. Jaesook Yun for pointing out this error, as her group has worked on related copper borylations for many years.[1]



(1)

ASSOCIATED CONTENT

Supporting Information

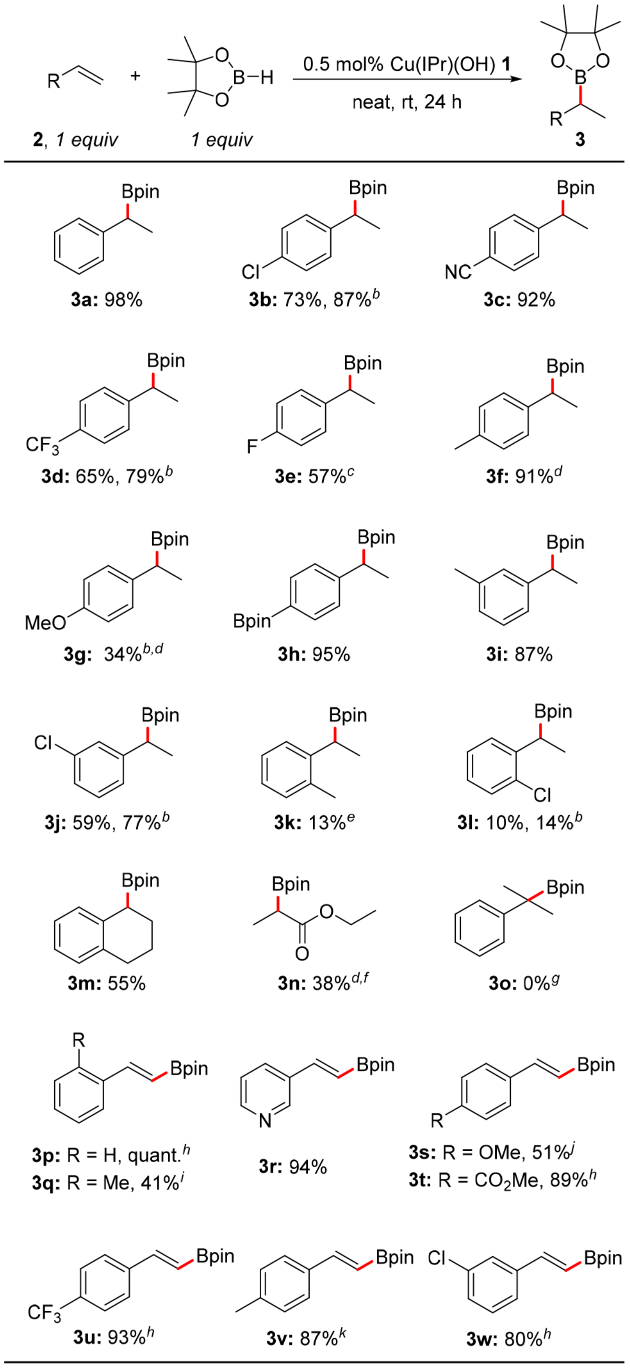
The Supporting Information is available free of charge at https://pubs.acs.org/doi/10.1021/acs.organomet.0c00629.

Revised file (PDF)

REFERENCES

(1) (a) Jang, W. J.; Lee, W. L.; Moon, J. H.; Lee, J. Y.; Yun, J. *Org. Lett.* **2016**, *18*, 1390−1393. (b) Jang, W. J.; Kang, B.-N.; Lee, J. H.; Choi, Y. M.; Kim, C.-H.; Yun, J. *Org. Biomol. Chem.* **2019**, *17*, 5249−5252.

Table 2. Hydroboration Substrate Scope[a]



[a] Yield determined via ^{1}H NMR spectroscopy vs 2,4,6-trimethylbenzaldehyde as an internal standard (IPr = 1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene. [b] 1.0 mol % catalyst loading. [c] Yield determined via ^{19}F NMR spectroscopy vs 4-fluorobenzoic acid as an internal standard. [d] Trace amount of linear product observed by GC-MS (<1%); not observed by ^{1}H NMR spectroscopy. [e] Isolated yield. [f] α,α,α-Trifluorotoluene used as the internal standard. [g] Branched product observed by GC-MS (<5%). [h] Trace amount of branched product observed by GC-MS (<1%); not observed by ^{1}H NMR spectroscopy. [i] 47% of the branched product observed by ^{1}H NMR spectroscopy. [j] 4% of branched product observed by ^{1}H NMR spectroscopy. [k] 8% of branched product observed by ^{1}H NMR spectroscopy.