A Rapid Route to Aminocyclopropanes via Carbamatoorganozinc Carbenoids

Zn/Cu-Mediated Aminocyclopropanation

Significance: The authors report a novel method for the preparation of carbamate-protected amino-cyclopropanes. The reaction proceeds via aminocyclopropanation of alkenes using carbamates in the presence of metallic zinc and copper. The conditions are very mild (room temperature) using only 3.2 equivalents of carbamate.

Comment: The prepared cyclopropane carbamates can be deprotected using iodotrimethylsilane in chloroform and methanol. Subsequent isolation furnishes the corresponding aminocyclopropanes as their crystalline Ht salts in high yields.

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Synfacts 2014, 10(1), 0082   Published online: 13.12.2013
DOI: 10.1055/s-0033-1340370; Reg-No.: P16013SF

Category
Metal-Mediated Synthesis

Key words
cyclopropanation zinc copper