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Copper(II)-catalyzed Decarboxylative Hydroboration: Synthesis of Vinyl Boronic Esters

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Abstract

Vinyl boronic esters were synthesized from aryl alkynyl carboxylic acids and bis(pinacolato)diboron using a copper-catalyzed decarboxylative reaction. The reaction was conducted with CuI (10 mol%), bis[2-(diphenylphosphino)phenyl]ether (20 mol%), and LiOMe (20 mol%) in DMSO at 50 °C for 16 h. This method provided the desired vinyl boronic esters in good to moderate yields and showed good functional group tolerance.

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- Francis Mariaraj Irudayanathan, Gabriel Charles Edwin Raja, Han-Sung Kim, Kyungsu Na and Sunwoo Lee, ChemInform Abstract: Copper-Catalyzed Decarboxylative Hydroboration: Synthesis of Vinyl Boronic Esters, *ChemInform*, **47**, 39, (2016).
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