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Synthesis of Biaryl-Bridged Cyclic Peptides via Catalytic Oxidative Cross-Coupling Reactions

Angew. Chem. Int. Ed. 2020, DOI: 10.1002/anie.201913305.

Cyclic Peptides Synthesis with the Assistance of a Removable Activating Group

Category

Peptide Chemistry

Key words

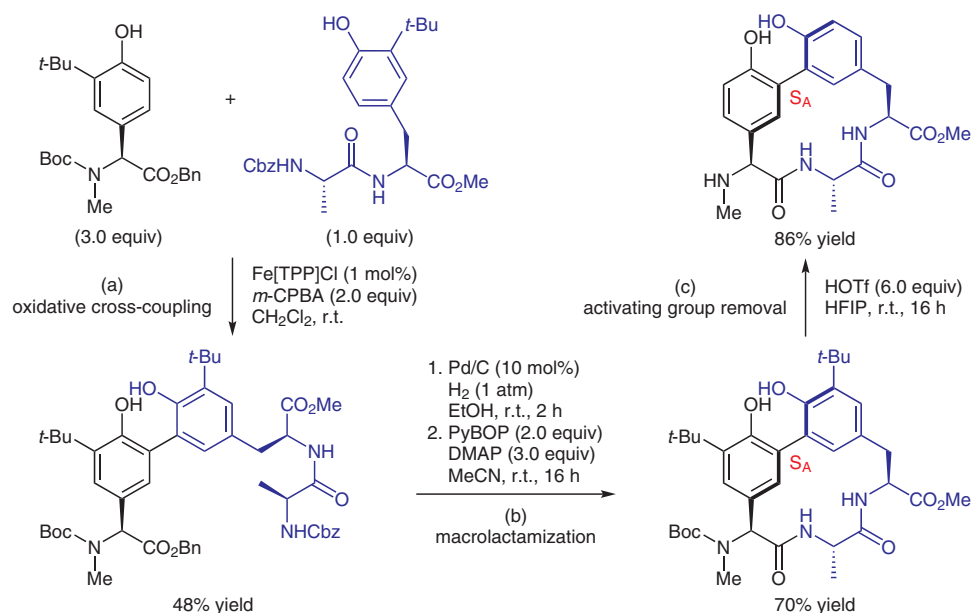
oxidative cross-coupling

cyclic peptides

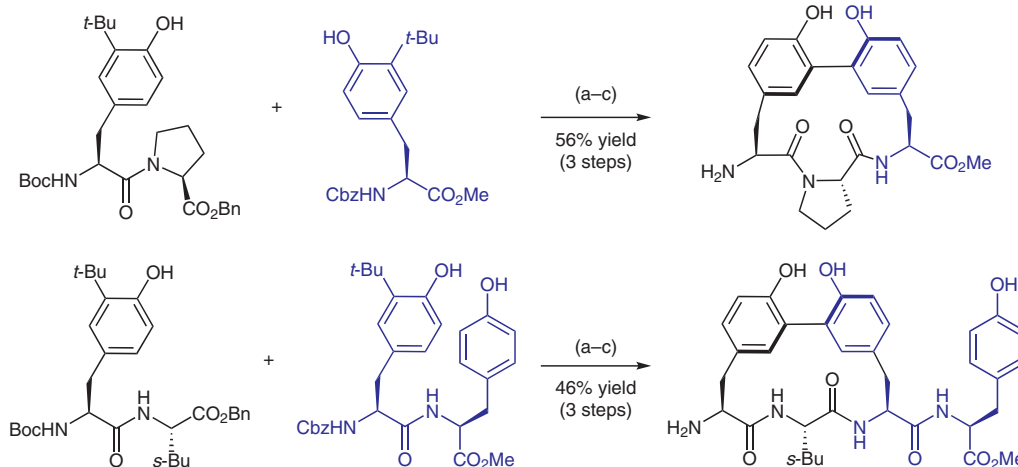
biaryl-bridged peptides

activating group

Synfact
of the
Month



Other examples:



Significance: Biaryl-bridged cyclic peptides are becoming more and more important due to their biological activity. The authors have developed an efficient strategy to synthesize these peptides by introducing a removable activating group to increase reactivity in the oxidative cross-coupling step that forms the biaryl unit.

Comment: Although the authors have prepared some natural and nonnatural biaryl-bridged cyclic peptides in moderate total yields, this approach with a remarkable activating group (*t*-Bu) might have more synthetic uses.

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