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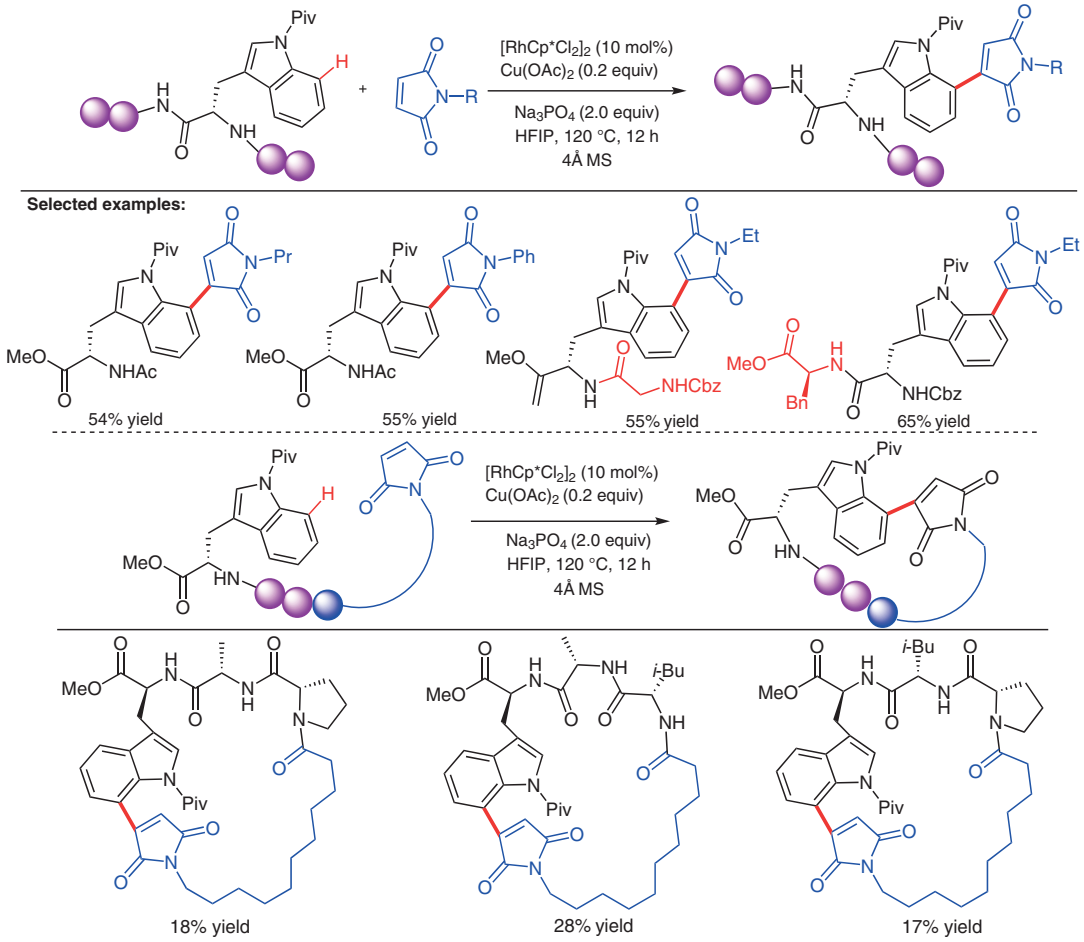
Macrocyclization of Maleimide-Decorated Peptides via Late-Stage Rh(III)-Catalyzed Trp(C7) Alkenylation
Org. Lett. **2023**, *25*, 2456–2460, DOI: 10.1021/acs.orglett.3c00601.

C–H Functionalization for the Synthesis of Maleimide-Decorated Peptides and Macrocyclic Peptides



Significance: Late-stage functionalization plays an inherent role in the construction of peptides and macrocyclic peptides. In the present study, the authors developed a Rh(III)-catalyzed alkenylation of tryptophan-containing peptides for the synthesis of maleimide-decorated peptides and macrocyclic peptides.

Comment: Rh(III)-catalyzed alkenylation of tryptophan-containing peptides proceeded smoothly to deliver maleimide-decorated peptides in good yields with excellent selectivity. The intramolecular reaction of maleimide-decorated peptides produced macrocyclic peptides.

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Synfacts 2023, 19(07), 0731 Published online: 16.06.2023
DOI: 10.1055/s-0042-1752703; **Reg-No.:** H05323SF