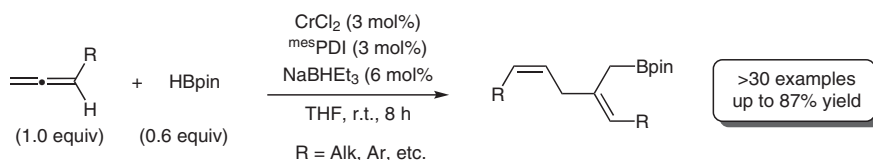


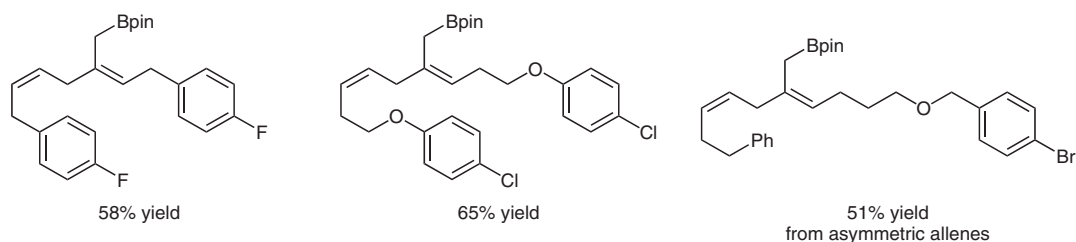
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Chromium-Catalyzed Selective Dimerization/Hydroboration of Allenes to Access Boryl-Functionalized Skipped (*E,Z*)-Dienes
Angew. Chem. Int. Ed. 2020, DOI: 10.1002/anie.202012344.

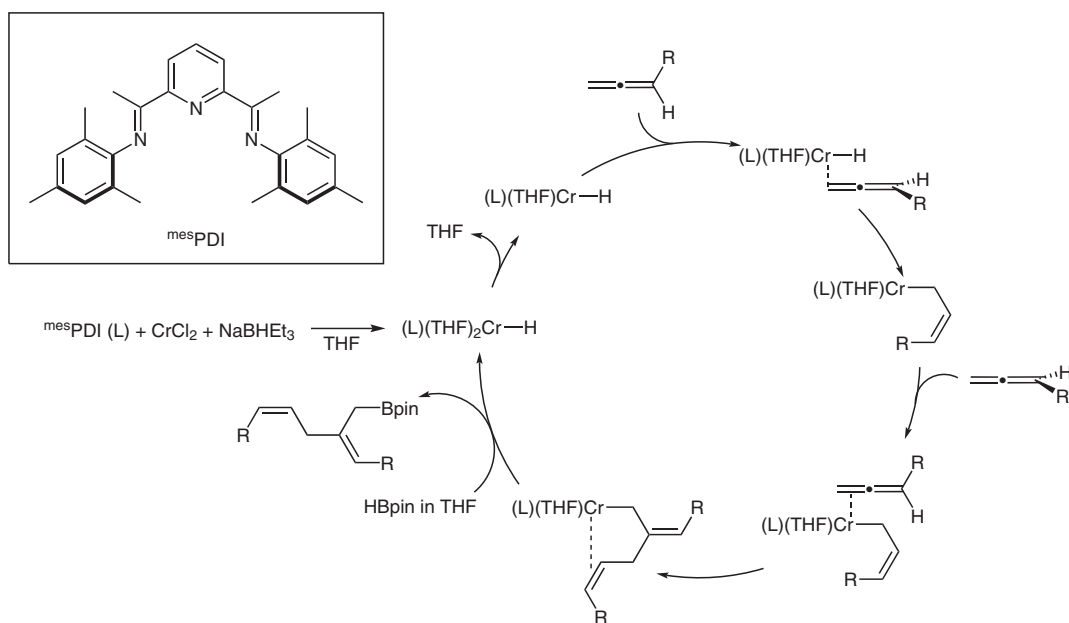
Chromium-Catalyzed Preparation of Skipped Dienes from Allenes



Selected examples:



Proposed reaction mechanism:



Significance: Zhao and Ge report the preparation of borylated skipped (*E,Z*)-1,4-dienes via a chromium(II)-catalyzed selective dimerization/hydroboration strategy from allenes in excellent regio-, chemo-, and stereoselectivity.

Comment: The authors performed mechanistic investigations allowing them to propose a catalytic cycle involving a Cr(I)-hydride species formed from CrCl₂, NaBHET₃, and the ligand.