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Enantioselective Rhodium-Catalyzed Synthesis of Branched Allylic Amines by Intermolecular Hydroamination of Terminal Allenes
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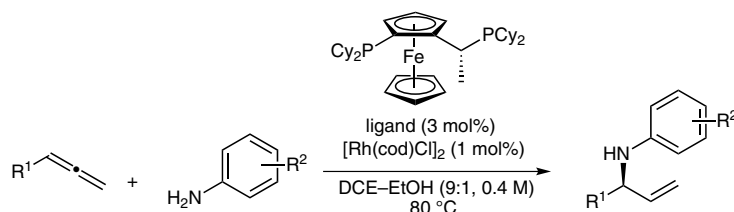
Rhodium-Catalyzed Enantioselective Hydroamination of Allenes

Category

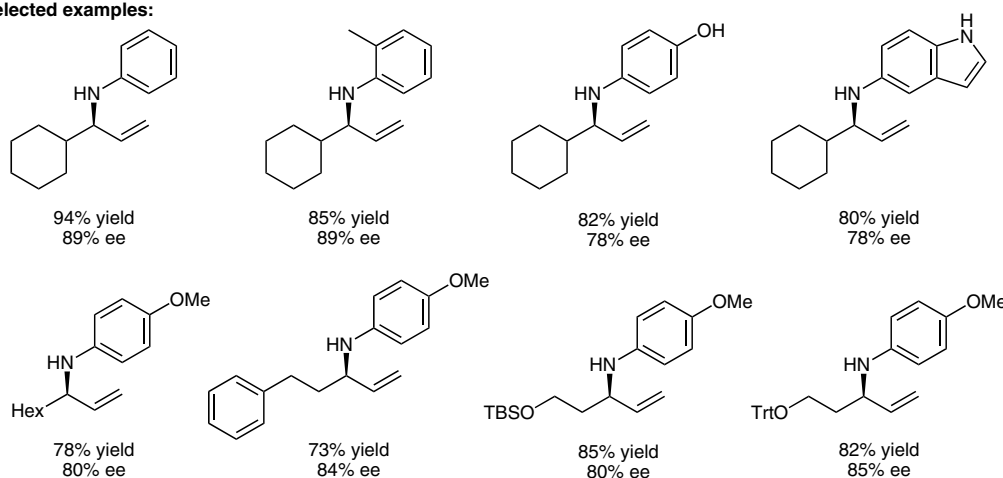
Metal-Catalyzed
Asymmetric
Synthesis and
Stereoselective
Reactions

Key words

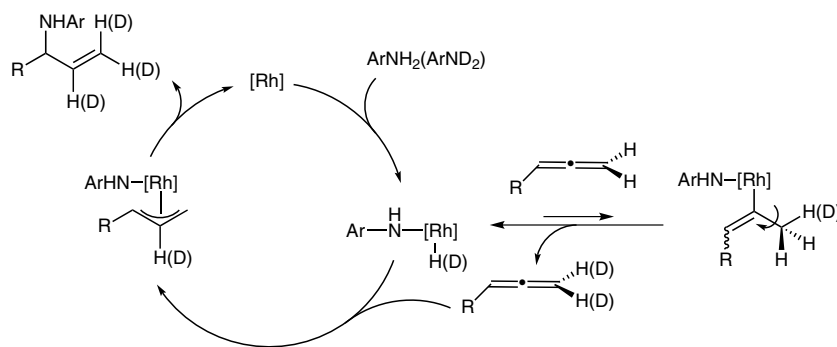
rhodium
hydroamination
allenes



Selected examples:



Proposed mechanism:



Significance: Despite the versatility of α -chiral allylic amines, synthetic methods to access them have been underdeveloped. The authors reported the first example of the enantioselective intermolecular hydroamination of mono-substituted allenes.

Comment: A variety of substituted anilines, even bearing unprotected alcohol and indole moieties, were employed to give good yields and high enantioselectivities. Further mechanistic study is desirable to explain the regioselectivity of the hydro-metalation step.

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