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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