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A Room-Temperature Protocol for the Rhodium(I)-Catalyzed Addition of Arylboron Compounds to Sulfinimines
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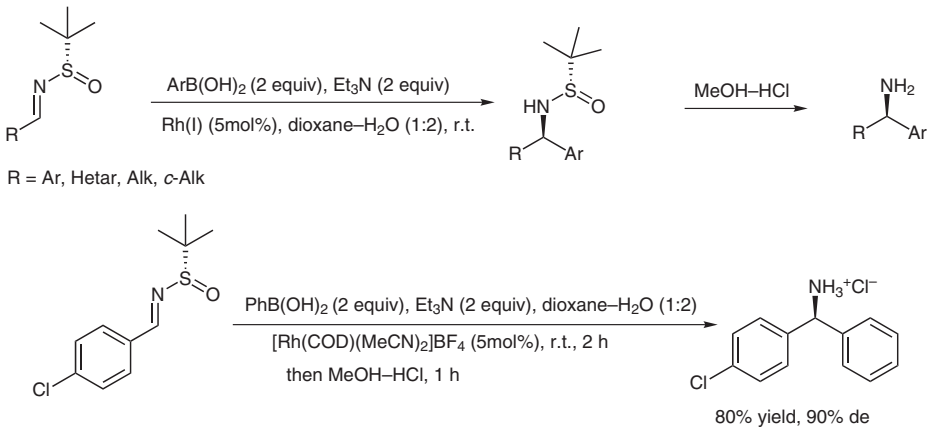
Diastereoselective Rh-Catalyzed Addition of Arylboron Compounds to Sulfinimines



Significance: The synthesis of chiral benzylic amines is an important task, since these compounds often possess biologic activity. Usual addition of an organometallic reagent to imines is limited by various factors including functional group compatibility and use of highly sensitive reagents. This protocol offers very mild reaction conditions and is advantageous due to the stability and availability of the reactants.

Comment: The use of arylboronic acids in 1,2-addition is relatively less developed, although there is a number of advantages, mainly the possibility for storing the boron compound. The used chiral auxiliary is readily accessible. Whereas many methods are known for the enantioselective addition to imines, they often require handling of sensitive organometallic reagents.

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