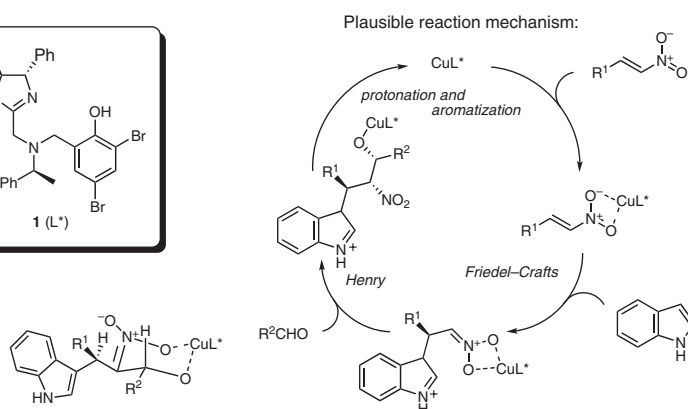
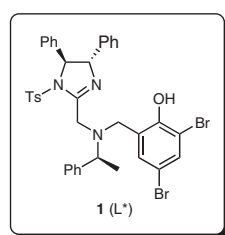
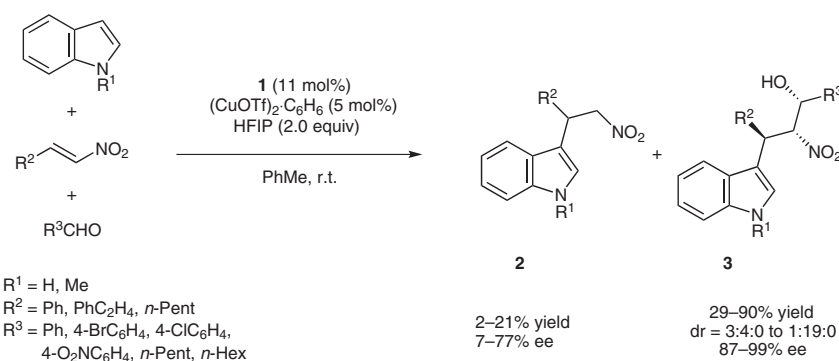


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Tandem Catalytic Asymmetric Friedel–Crafts/Henry Reaction: Control of Three Contiguous Acyclic Stereocenters
Angew. Chem. Int. Ed. **2008**, *47*, 4989–4992.

Cu-Catalyzed Tandem Friedel–Crafts/Henry Reaction



Significance: This report describes one of the first successful tandem Friedel–Crafts/Henry (FCH) reactions that provide acyclic chiral products. The most significant point of this account is the predominant formation of only three diastereomers of the three-component reaction products (**3**) that bear three contiguous stereocenters.

Comment: The authors have shown that the tandem FCH reaction is specific for the copper-imidazole-amino phenol catalyst (**Cu1**). The observed *syn* selectivity, as proposed by the authors, arises from a six-membered transition state in which copper coordinates to two oxygen atoms.

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Category

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Reactions

Key words

copper

tandem reaction

Friedel–Crafts/
Henry reaction