

H. WU, F. HAEFFNER, A. H. HOVEYDA\* (BOSTON COLLEGE, CHESTNUT HILL, USA)  
 An Efficient, Practical, and Enantioselective Method for the Synthesis of Homoallenylamides Catalyzed by an  
 Aminoalcohol-Derived, Boron-Based Catalyst  
*J. Am. Chem. Soc.* **2014**, *136*, 3780–3783.

# Enantioselective Allene Addition to Aryl and Alkyl Imines

Category

Metal-Mediated  
Synthesis

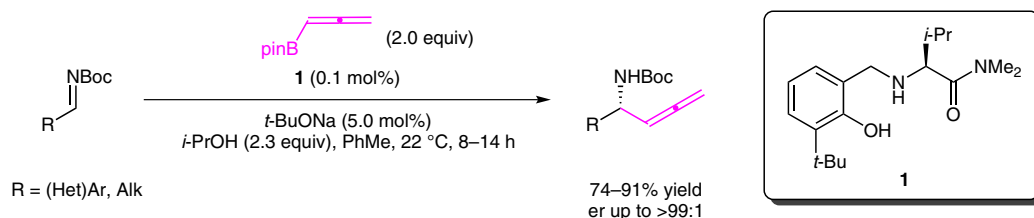
Key words

allenes

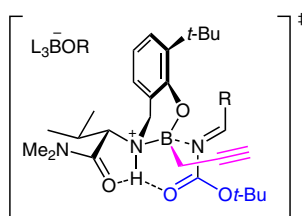
boron

enantioselectivity

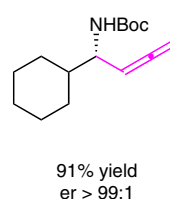
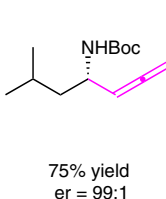
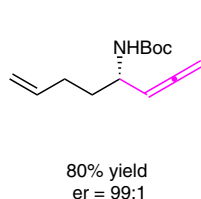
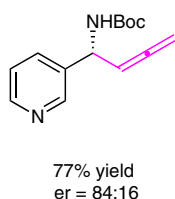
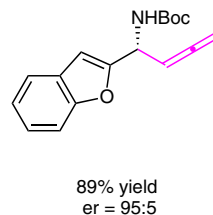
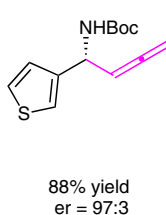
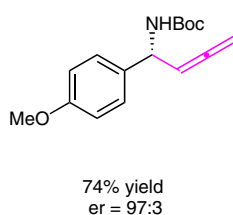
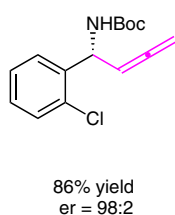
**SYNFACT**  
of the month



Transition state:



Selected examples:



**Significance:** Hoveyda and co-workers report a highly efficient method for the enantioselective preparation of aryl-, heteroaryl-, and alkyl-substituted homoallenylamides. The addition of an allenyl unit to various Boc-protected imines proceeds with high yield and very good enantioselectivity.

**Comment:** The application of this new protocol shows its relevance in the total syntheses of the natural products anisomycin and *epi*-cytoxazone. Furthermore, it is shown that the allenyl addition performed on gram scale proceeds with high efficiency and selectivity, providing the corresponding product in excellent yield.

**SYNFACTS Contributors:** Paul Knochel, Diana Haas  
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