

## Indole derivatives

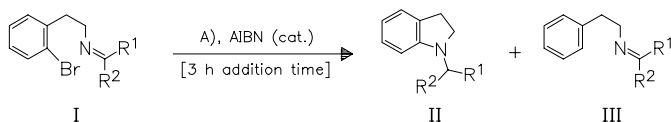
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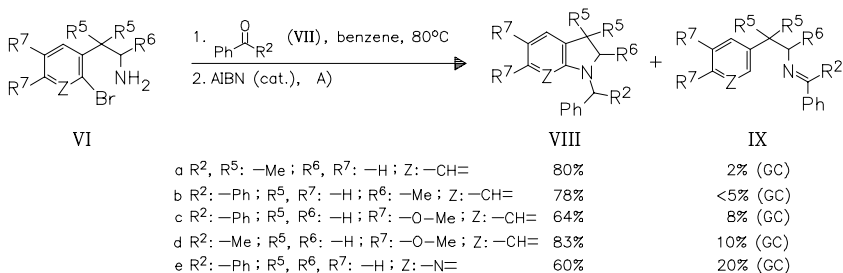
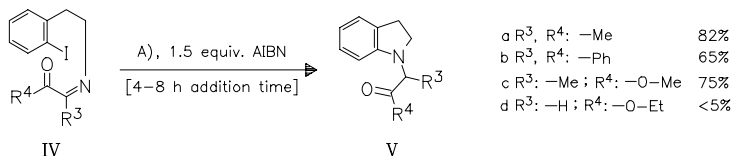
**Free Radical-Mediated Aryl Amination and Its Use in a Convergent [3 + 2] Strategy for Enantioselective Indoline  $\alpha$ -Amino Acid Synthesis.** — In the presence of

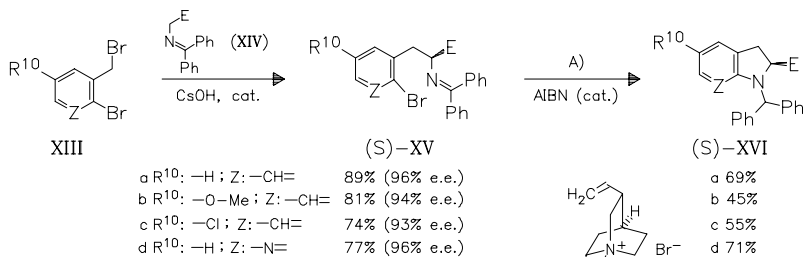
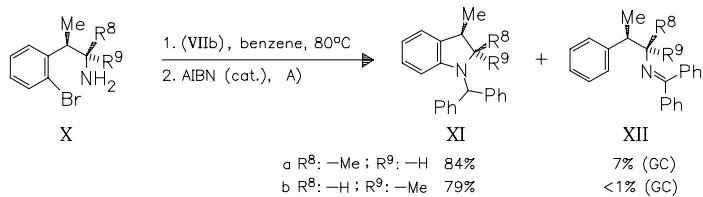
$\text{Bu}_3\text{SnH/AIBN}$  ketimines of type (I) and (IV) undergo regioselective aryl-nitrogen bond formation giving indole derivatives. This is the most efficient radical-mediated aryl amination reported to date. The mild method can be applied successfully to the enantioselective synthesis of indoline  $\alpha$ -amino acid derivatives. —

(VISWANATHAN, R.; PRABHAKARAN, E. N.; PLOTKIN, M. A.; JOHNSTON\*, J. N.; J. Am. Chem. Soc. 125 (2003) 1, 163-168; Dep. Chem., Indiana Univ., Bloomington, IN 47405, USA; Eng.) — Jannicke

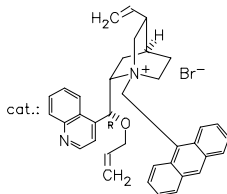


a R <sup>1</sup> , R <sup>2</sup> : —Me	30%	50% (GC)
b R <sup>1</sup> : —CF <sub>3</sub> ; R <sup>2</sup> : —Me	83%	6% (GC)
c R <sup>1</sup> : —Me; R <sup>2</sup> : —Ph	87%	9% (GC)
d R <sup>1</sup> : —Me; R <sup>2</sup> :	90%	10% (GC)
e R <sup>1</sup> : —Me; R <sup>2</sup> :	72%	10% (GC)
f R <sup>1</sup> : —Me; R <sup>2</sup> :	27%	25% (GC)
g R <sup>1</sup> , R <sup>2</sup> : —Ph	86%	9% (GC)
h R <sup>1</sup> : —H; R <sup>2</sup> : —Ph	8%	0%

A):  $\text{Bu}_3\text{SnH}$ , benzene, 80°C



E: -CO-O-tBu



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