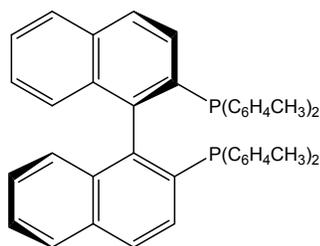


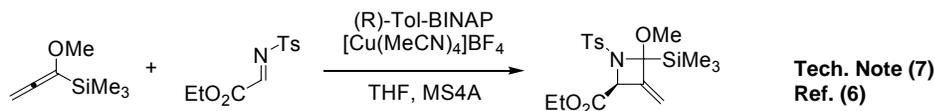
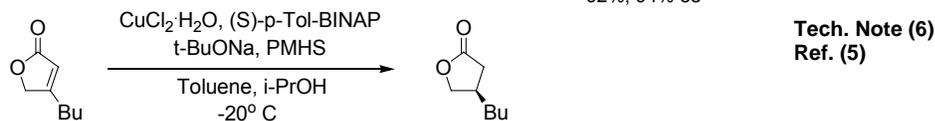
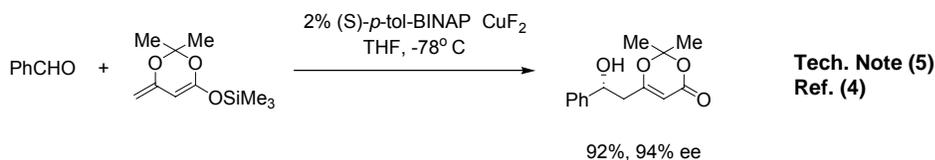
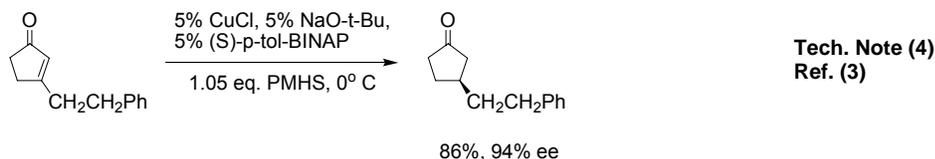
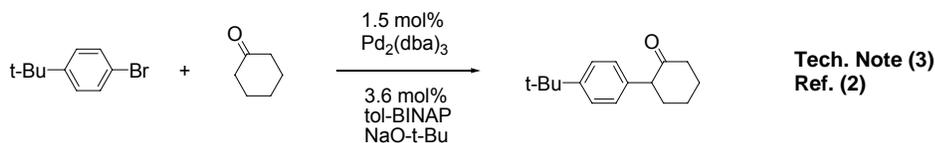
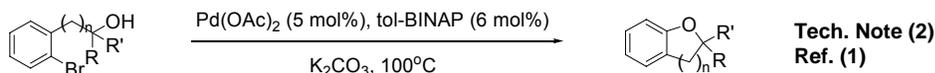
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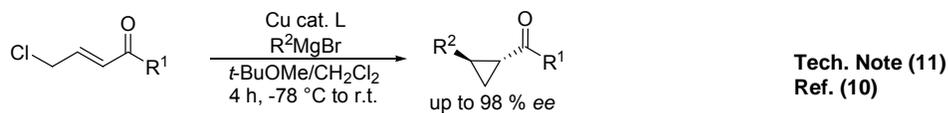
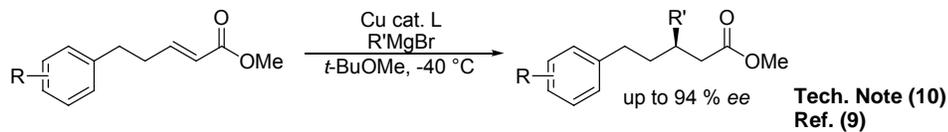
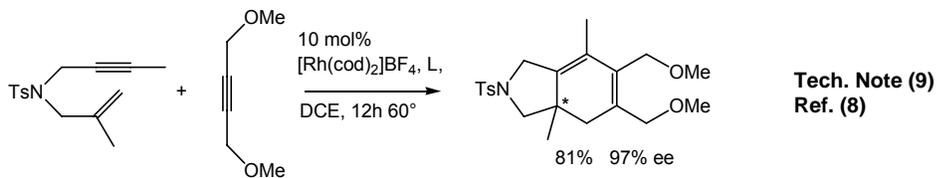
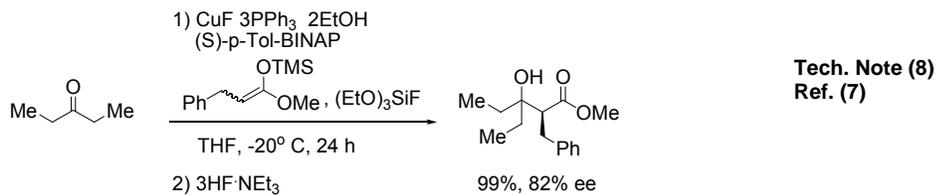


Note: Manufactured under license of Takasago patent. Takasago BINAP Ligand Kit component.

Technical Notes:

1. See [15-0150](#).
2. Useful ligand for palladium-catalyzed carbon-oxygen bond formation.
3. Ligand for palladium-catalyzed α -arylation of ketones.
4. Ligand for Cu-catalyzed asymmetric conjugate reduction.
5. Ligand for Cu-catalyzed asymmetric dienolate addition to aldehydes.
6. Enantioselective conjugate reduction of lactones and lactams.
7. Ligand used in the enantioselective cycloaddition of allenylsilanes with α -imino esters.
8. Catalytic Aldol reaction to ketones.
9. Ligand with rhodium catalyses [2+2+2] cycloaddition reaction of alkenes and alkynes.
10. Ligand used in the copper-catalyzed asymmetric conjugate addition of alkyl Grignard reagents on α,β -unsaturated esters.
11. Ligand used in the copper-catalyzed asymmetric synthesis of cyclopropanes via tandem conjugate addition and intramolecular enolate trapping.





References:

1. *J. Am. Chem. Soc.*, **1996**, 118, 10333.
2. *J. Am. Chem. Soc.*, **1997**, 119, 11108.
3. *J. Am. Chem. Soc.*, **2000**, 122, 6797.
4. *J. Am. Chem. Soc.*, **1998**, 120, 837.
5. *J. Am. Chem. Soc.*, **2003**, 125, 11253.
6. *Org. Lett.*, **2003**, 5(20), 3691.
7. *J. Am. Chem. Soc.*, **2003**, 125, 5644.
8. *Org. Lett.*, **2005**, 7(22), 4955.
9. *Chem. Commun.*, **2010**, 46, 8694.
10. *J. Am. Chem. Soc.*, **2010**, 132, 14349.