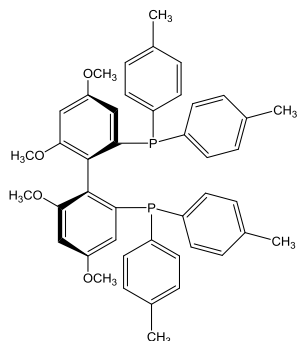


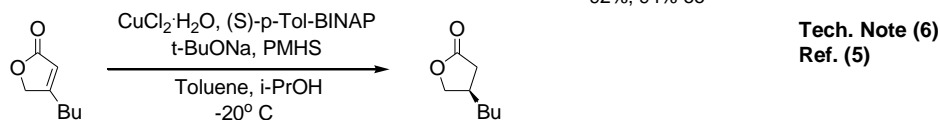
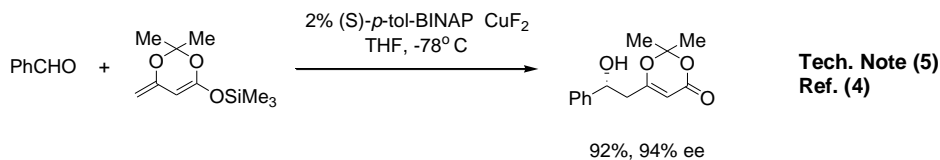
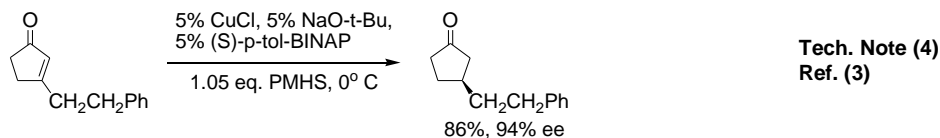
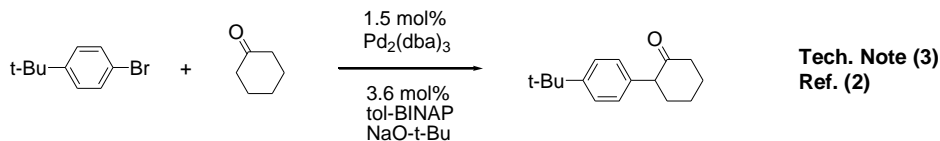
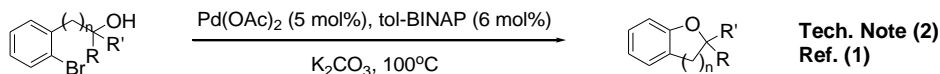
Catalog # 15-0153 (S)-(-)-2,2'-Bis(di-p-tolylphosphino)-1,1'-binaphthyl, 98% (S)-Tol-BINAP [100165-88-6]

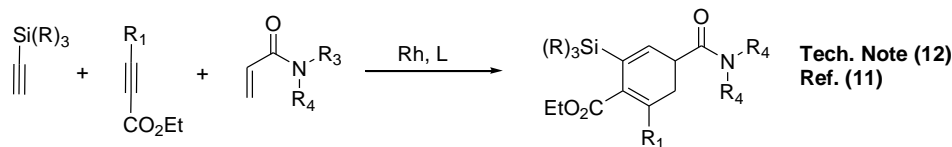
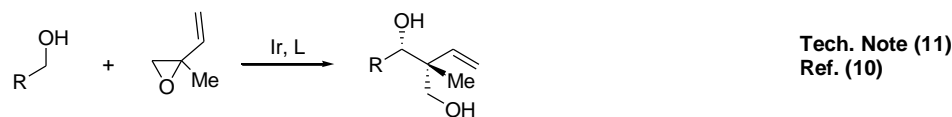
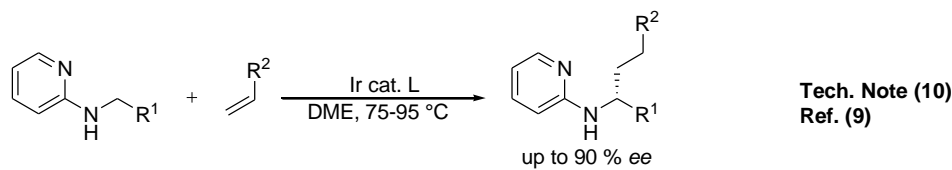
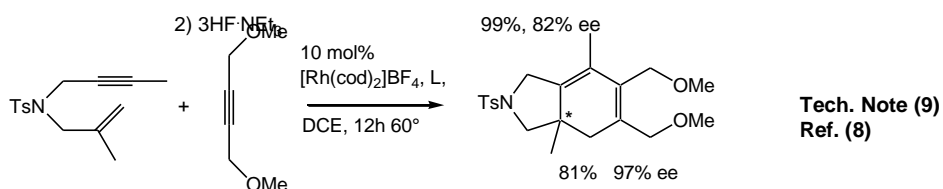
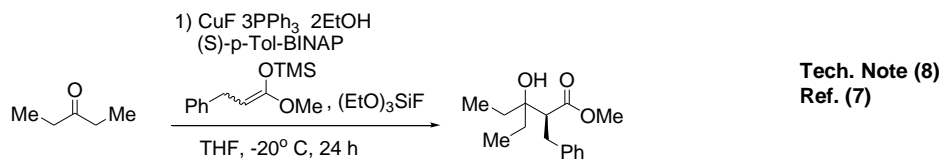


Note: Manufactured under license of Takasago patent. Takasago BINAP Ligand Kit component.

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 -lmino 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 iridium-catalyzed enantioselective C-H bond activation of 2-(alkylamino)-pyridine with alkenes.
11. Iridium-catalyzed regio-, diastereo-, and enantioselective *tert*-(hydroxyl)-prenylation of alcohols.
12. Rhodium-catalyzed cross cyclotrimerization.





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