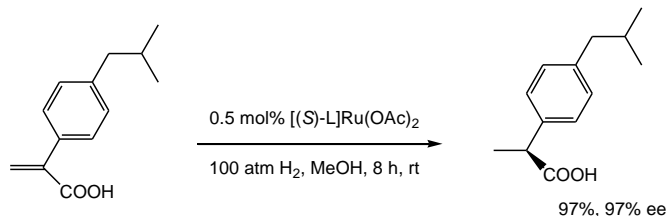


Catalog # 15-2973 (S)-(-)-2,2'-Bis(diphenylphosphino)-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl (S)-H₈-BINAP

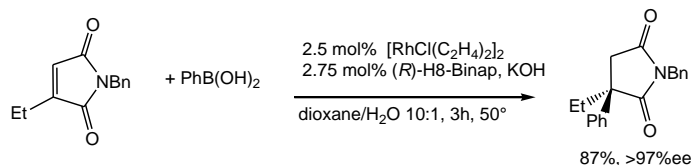
Note: Manufactured under license of Takasago patent. Takasago BINAP Ligand Kit component.

Technical Notes:

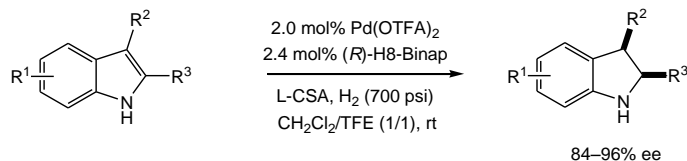
1. Biaryl bisphosphine ligand. The H8-BINAP ligand, as the ruthenium complex, catalyzes hydrogenation of unsaturated carboxylic acids to a higher ee than does BINAP. (Ref. 1,2)
2. The ruthenium catalyzed hydrogenation of aryl propenoic acid to produce the drug Ibuprofen.
3. Rhodium catalyzed asymmetric regioselective 1,4-addition of arylboronic acids to 3-substituted maleimides.
4. Ligand for palladium-catalyzed enantioselective hydrogenation of substituted indoles.
5. Rhodium-catalyzed enantioselective cyclization of γ -alkynylaldehydes with acyl phosphonates.
6. Enantioselective synthesis of axially chiral 1-arylisquinolines by Rh-catalyzed [2+2+2] cycloaddition.
7. Enantioselective synthesis of 2,3-disubstituted indolines through Bronsted acid/Pd-complex-promoted tandem reactions.
8. Dehydration triggered asymmetric hydrogenation of 3-(α -hydroxyalkyl)indoles
9. Iridium-catalyzed [2+2+2] cycloaddition of α,ω -diynes with arylisocyanates
10. Asymmetric hydrogenation of 3-(toluenesulfonamidoalkyl)-indoles
11. Asymmetric Rh(I)-catalyzed intramolecular [3+2] cycloaddition of 1-yne-vinylcyclopropanes for bicyclo[3.3.0] compounds with a chiral quaternary carbon stereocenter.
12. Enantioselective intermolecular [2+2+2] cycloadditions of ene-allenes with allenates.
13. Rh-catalyzed one-pot intermolecular [2+2+2] trimerization/asymmetric intramolecular [4+2] cycloaddition of two aryl ethynyl ethers and 5-alkynals.
14. Rh-catalyzed regio-, diastereo-, and enantioselective [2+2+2] cycloaddition of 1,6-enynes with acrylamides.



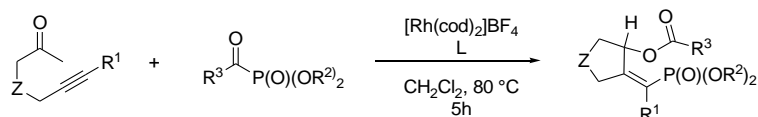
Tech. Note (1,2)
Ref. (1,2)



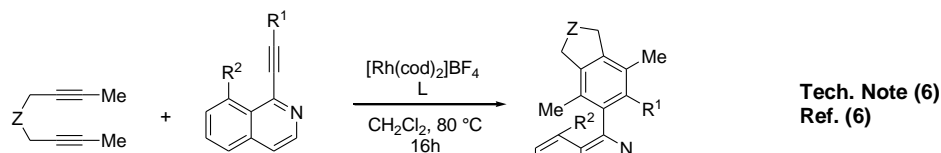
Tech. Note (3)
Ref. (3)



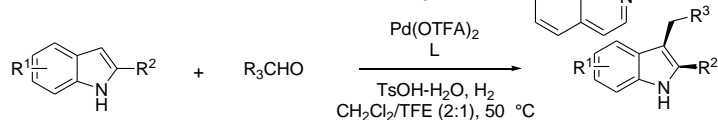
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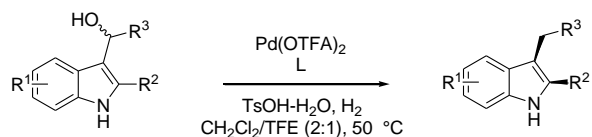
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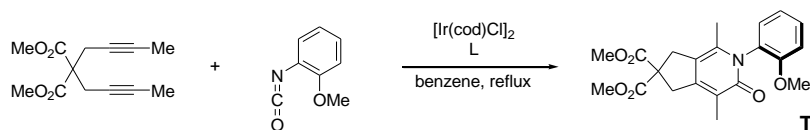
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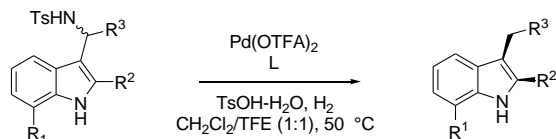
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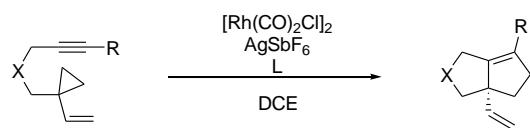
Tech. Note (8)
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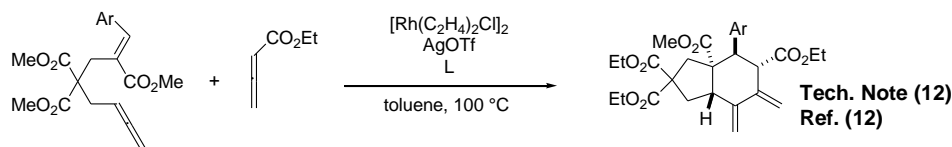
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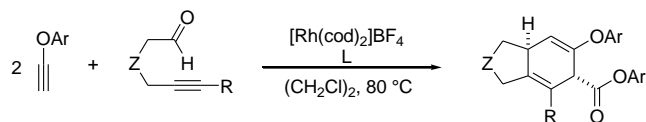
Tech. Note (10)
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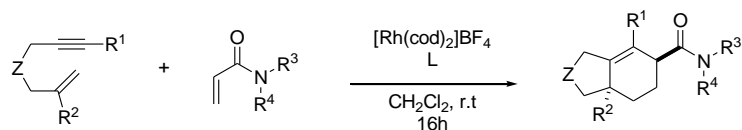
Tech. Note (11)
Ref. (11)



Tech. Note (12)
Ref. (12)



Tech. Note (13)
Ref. (13)



Tech. Note (14)
Ref. (14)

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