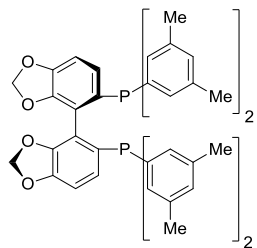


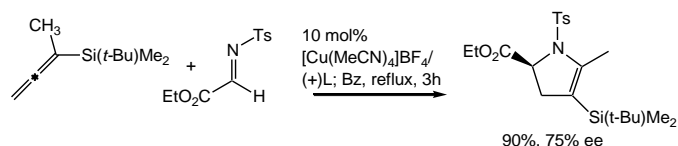
Catalog # 15-0478 (R)-(+)-5,5'-Bis[di(3,5-xylyl)phosphino]-4,4'-bi-1,3-benzodioxole, min. 98% (R)-(+)-DM-SEGPHOS®



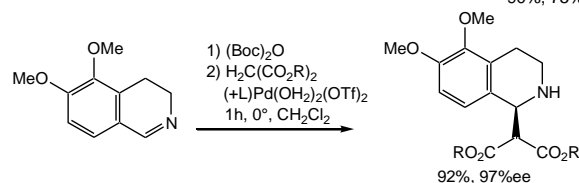
Note: Takasago SEGPHOS Ligand Kit.

Technical Notes:

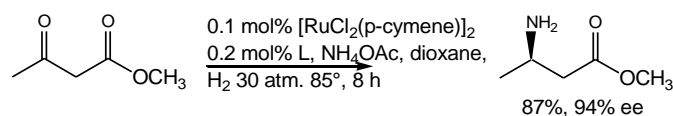
1. Biaryl bisphosphine ligand with narrow dihedral angle. The DM-SEGPHOS ligand, as the ruthenium complex, gives superior enantioselectivity and diastereoselectivity in the asymmetric hydrogenation of α -substituted- β -ketoesters. See [15-0066](#).
2. Copper catalyzed enantioselective [3 + 2] cycloaddition as a route to γ -amino ketones and 3-pyrrolidinones.
3. Palladium catalyzed enantioselective addition of malonates to dihydroisoquinolines.
4. Ruthenium catalyzed enantioselective synthesis of β amino acids by hydrogenation.
5. Ruthenium catalyzed asymmetric hydrogenation of 3-quinuclidinone. See [44-0098](#) for Ru catalyst.
6. Diastereo- and enantioselective ruthenium-catalyzed hydrohydroxyalkylation of 2-silyl-butadienes.
7. Asymmetric [2+2+2] cycloaddition.
8. Linear selective C-H activation.
9. Ligand used in the asymmetric hydrogenation of quinoxalines, benzoxazines and Benzothiazine.



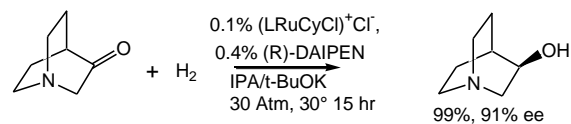
Tech. Note (2)
Ref. (1)



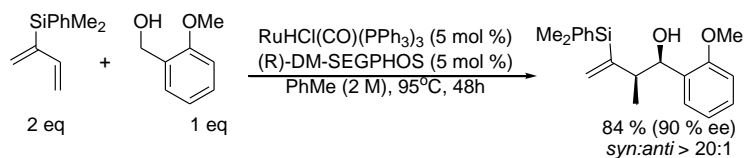
Tech. Note (3)
Ref. (2)



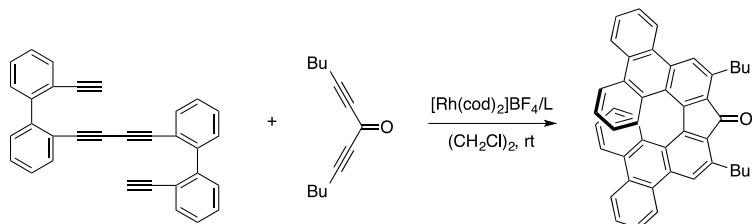
Tech. Note (4)
Ref. (3)



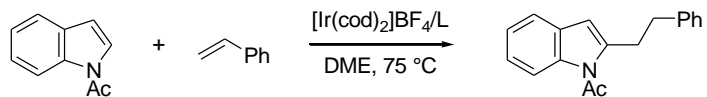
Tech. Note (5)
Ref. (4)



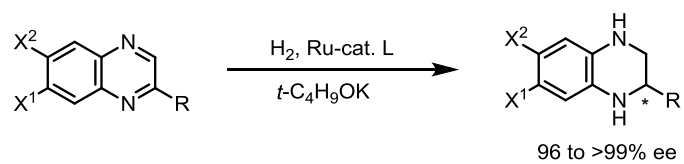
Tech. Note (6)
Ref. (5)



Tech. Note (7)
Ref. (6)



Tech. Note (8)
Ref. (7)



Tech. Note (9)
Ref. (8)

References:

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