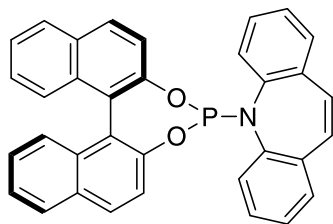
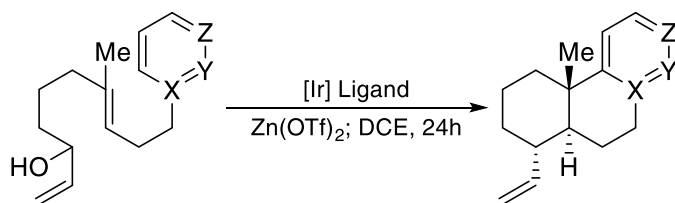


Catalog # D282129 5-(11bR)-5H-Dibenz[b,f]azepine-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin-4-yl

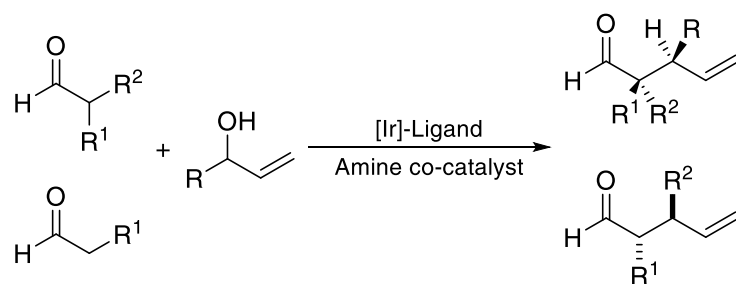


Technical Notes

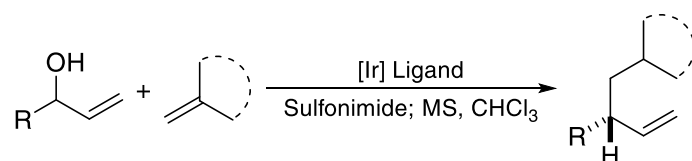
1. Ligand for the Ir-catalyzed enantioselective polyene cyclization.
2. Ligand for Ir-catalyzed enantio- and diastereodivergent α -allylation of branched and linear aldehydes.
3. Ligand for the direct Ir-catalyzed cross-coupling between branched, racemic allylic alcohols and simple olefins.
4. Ligand for the Ir-catalyzed enantioselective allyl-allylsilane cross-coupling.
5. Ligand for the Ir or Pd/aminocatalyst-catalyzed and asymmetric γ -allylation of α,β -unsaturated aldehydes.
6. Ligand for the α -allylation of protected α -amino- and α -hydroxyacetaldehydes.
7. Ligand for the Ir-catalyzed substitution of allylic carbonates using formaldehyde N,N-dialkylhydrazones as neutral C1-nucleophiles.
8. Used in synthesis of chiral, β -substituted homoallylic organoboronic esters via Ag-assisted, Ir-catalyzed allylation of bis[(pinacolato)boryl]methane.
9. Ligand for the Ir-catalyzed enantioselective allylic alkylation that enables the preparation of β -substituted γ,δ -unsaturated esters and protected aldehydes.
10. Ligand for the enantioconvergent C(sp³)-C(sp³) coupling between racemic allenyl electrophiles and alkylzinc reagents to generate highly asymmetric preparation of allenyl carbonates over the corresponding diene isomers.
11. Ligand used in Pd catalyzed tandem allylation/1,2-boronate rearrangement for the asymmetric synthesis of indolines with adjacent quaternary stereocenters.
12. Ligand for the Ir-catalyzed enantioselective allylation of N-, O- and S-nucleophiles, also chloro- and Bromoacetaldehyde in water.
13. Ligand for the Ir-catalyzed allylic alkylation of racemic allylic alcohols with malonates.
14. Ligand for the Ir-catalyzed enantioselective allylation of aryl enamides and enecarbamates.



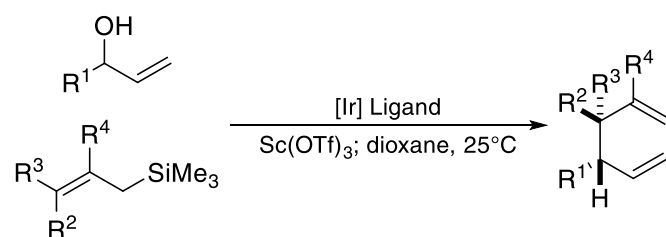
Tech. Note (1); Ref. (1)



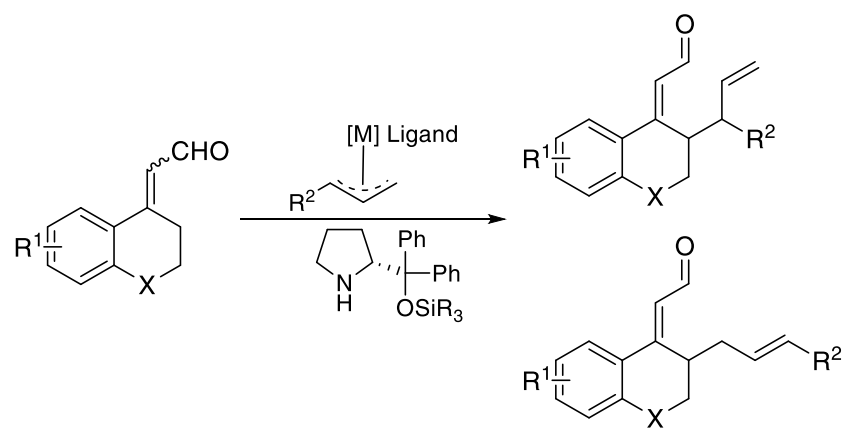
Tech. Note (2); Ref. (2-3)



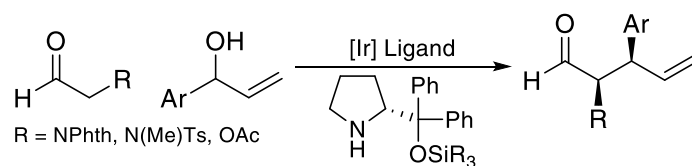
Tech. Note (3); Ref. (4)



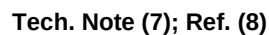
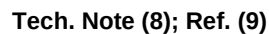
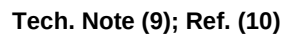
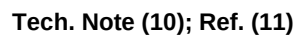
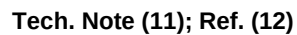
Tech. Note (4); Ref. (5)

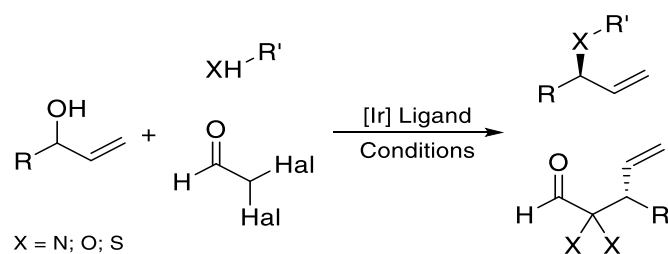


Tech. Note (5); Ref. (6)

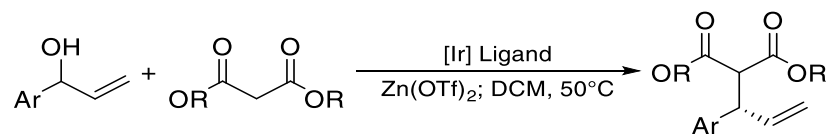


Tech. Note (6); Ref. (7)

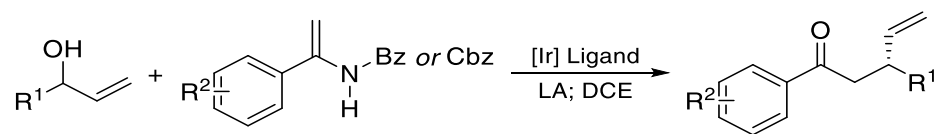




Tech. Note (12); Ref. (13)



Tech. Note (13); Ref. (14)



Tech. Note (14); Ref. (15)

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