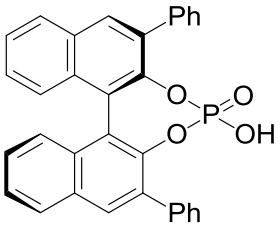
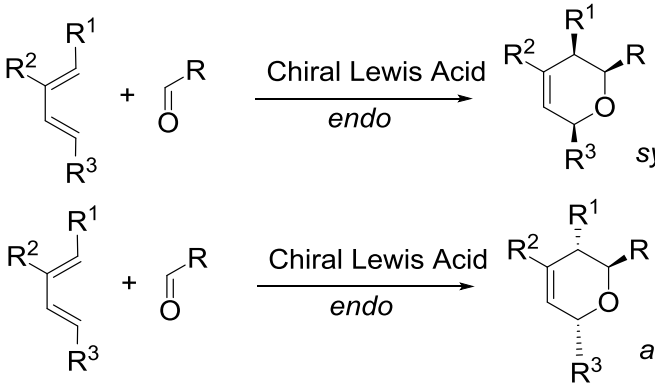
Catalog # 15-1386 (11bR)-4-Hydroxy-2,6-diphenyl-4-oxide-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin, 98%, (99% ee)



Technical Notes:

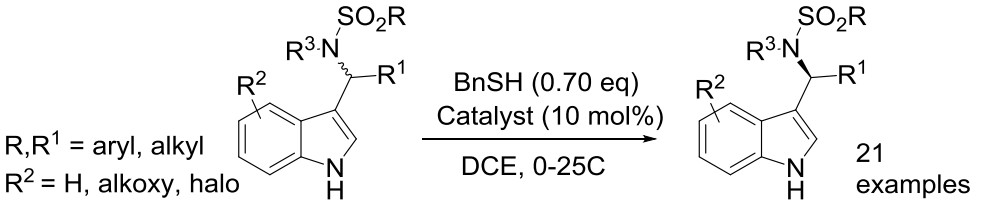
1. **Diels-Alder Reaction:** A highly enantioselective anti-diastereoselective hetero-Diels-Alder reaction between a glyoxylate and siloxy- or methoxydienes using a chiral phosphoric acid catalyst that possesses less bulky phenyl groups at the 3 and 3' positions of binaphthyl has been developed.
2. **Kinetic Resolution:** In the presence of 10 mol% of a chiral phosphoric acid, a variety of racemic N-benzylic sulfonamides having N-(3-indolyl)methyl groups smoothly undergo kinetic resolution with benzyl thiol at 0 °C or at room temperature and the remaining sulfonamides are recovered in moderate to excellent yields and with excellent ee.



R^1, R^3 = alkyl or Ar, R^2 = OSi

R^1, R^2 = alkyl, R^3 = OMe

Tech Note (1)
Ref. (1)



R,R^1 = aryl, alkyl
R^2 = H, alkoxy, halo
R^3 = H, alkyl

21 examples
25-47% yields
90-99% e.e.

Tech Note (2)
Ref. (2)

References:

1. *J. Am. Chem. Soc.,* **2009**, *131,* 12882-12883.
2. *Chem. Commun.,* **2012**, *48,* 898-900.