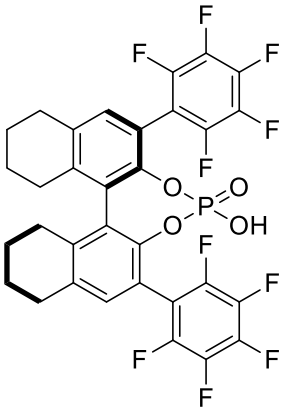
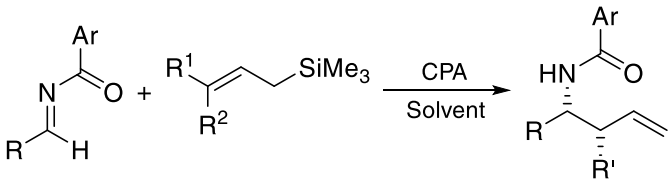
Catalog # B281927 (11bR)-4-Oxide-8,9,10,11,12,13,14,15-octahydro-4-hydroxy-2,6-bis(2,3,4,5,6-pentafluorophenyl)-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin



Technical Notes

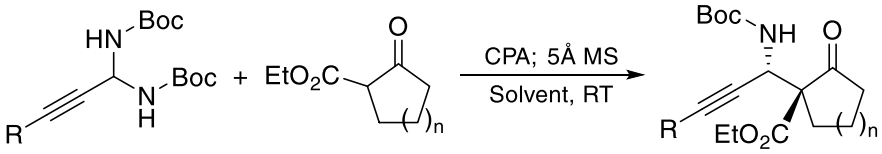
1. Chiral Brønsted acid catalysis for enantioselective Hosomi-Sakurai reaction of imines with allyltrimethylsilane.
2. Chiral Brønsted acid catalysis for stereoselective Mannich-type reactions of in situ generated C-alkynyl imines with β-keto esters.
3. Chiral Brønsted acid catalysis for Mannich-type reaction of N-Boc-iminium intermediates, generated in situ from N-Boc-aminals.



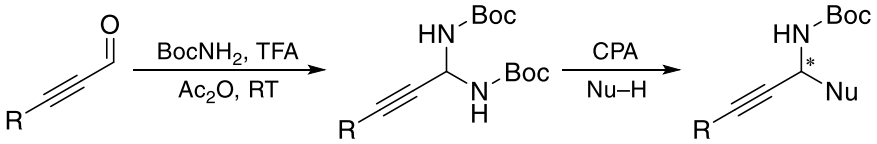
$R^1$, $R^2$ = (H, H), (Me, H), (H, Me)

R' = H, Me

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



**Tech. Note (2); Ref. (2)**



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

References:


1. *Org. Lett.,* **2011**, *13,* 2126.
2. *Angew. Chem. Int. Ed.* **2013**, *52,* 11509.
3. *Tetrahedron,* **2016**, *72,* 3687.