Strem Chemicals, Inc.

www.strem.com

Tech. Note (3)

Ref. (3)

Catalog # 15-0652 (R)-(-)-2,2'-Bis[di(3,5-di-i-propyl-4-dimethylaminophenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl, min. 97%

Technical Notes:

2 equiv

0.1 mmol

- 1. Direct catalytic asymmetric conjugate addition of terminal alkynes to α,β-unsaturated thioamides.
- 2. Catalytic generation of α -CF₃ enolate: Direct catalytic asymmetric Mannich-Type reaction of α -CF₃ amide.
- 3. Direct catalytic asymmetric Mannich-Type reaction of α and β -fluorinated amides.
- 4. Direct catalytic asymmetric conjugate addition of saturated and unsaturated thioamides.
- 5. Palladium-Catalyzed enantioselective alkoxycarbonylation of propargylic carbonates with (R)- or (S)-3,4,5-(MeO)₃ –MeOBIPHEP.
- 6. Ligand for the Chemo-, Regio-, and Enantioselective Rhodium-Catalyzed Allylation of Pyrida-zinones with Terminal Allenes.

$$\begin{array}{c} & & & & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

THF, rt, <=24 h

[0.3 M]

$$\begin{array}{c} & \text{mesitylcopper} \\ & \text{ligand, ArOH} \\ & \text{Ho} \\ & \text{N} \\ & \text{R}^1 \\ & \text{N} \\ & \text{R}^2 \\ & \text{N} \\ & \text{R}^2 \\ & \text{N} \\ & \text{R}^2 \\ & \text{R}^2 \\ & \text{R}^2 \\ & \text{CHPh}_2 \end{array} \qquad \begin{array}{c} \text{Me}_2 \\ & \text{Me}_2 \\ & \text{N} \\ & \text{Ref. (4)} \end{array}$$

References:

- J. Am. Chem. Soc., 2010, 132, 10275.
 J. Am. Chem. Soc., 2014, 136, 17958.
 J. Am. Chem. Soc., 2015, 137, 15929.

- 4. Org. Lett., 2015, 17, 3362.
- 5. Chem. Eur. J., 2017, 23, 8590.
- 6. Org. Lett. 2017, 19, 2326-2329.