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Catalog # 15-0587 (11bR)-4-Hydroxy-2,6-bis(2,4,6-tricyclohexylphenyl)-4-oxide-dinaphtho[2,1-d:1',2'-f] [1,3,2]dioxaphosphepin; TCYP



Technical Notes

- 1. Used for enantioselective fluoroamination using selectfluor: 1,4-addition to conjugated dienes.
- 2. Chiral phosphoric acid in enantioselective organocatalytic fluorination-induced Wagner-Meerwein rearrangement.
- 3. Catalyst for highly enantioselective fluorinative dearomatization of phenols.
- 4. Ligand for the enantioselective Pd-catalyzed 1,1-arylborylation of alkenes.
- 5. Chiral phosphoric acid catalyst for enantioselective aza-piancatelli rearrangement.
- 6. Chiral phosphoric acid for enantioselective Heck-Matsuda arylations through chiral anion phase-transfer of aryl diazonium salts.
- 7. Used in achiral iridacycle/chiral phosphoric acid catalyzed enantioselective synthesis of tetrahydroquinolines by borrowing hydrogen methodology.
- 8. Chiral phosphoric acid catalyst used in Ir-photocatlyst assested enantioselective Minisci-type addition to heteroarenes to access enantioenriched α-heterocyclic amines.
- 9. Chiral phosporic acid catalyst for Pd-assested enantioselective α-alkylation of azlactones with nonconjugated alkenes by directed nucleopalladation.
- 10. Used in kinetic resolution of para-quinols via complexation of *in-situ* directing group and phosphate.



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





Tech. Note (10); Ref. (10)

References:

- 1. Angew. Chem. Int. Ed. 2013, 52, 7724.
- 2. Angew. Chem. Int. Ed. 2013, 52, 9266.
- 3. J. Am. Chem. Soc. 2013, 135, 1268.
- 4. J. Am. Chem. Soc. 2015, 137, 3213.
- 5. Angew. Chem. Int. Ed. 2016, 55, 15125.
- 6. Angew. Chem. Int. Ed. 2017, 56, 5806.
- 7. Angew. Chem. Int. Ed. 2017, 56, 7176.
- 8. Science 2018, 360, 419.
- 9. Angew. Chem. Int. Ed. 2019, 58, 3923.
- 10. Adv. Synth. Catal. 2020, 362, 195.